A

BOOKE OF SVNDRY

MVSEVM
BRITAN
NICVM

The Authour to the willing practiſers of glazeing, and anneiling in Glaſſe.

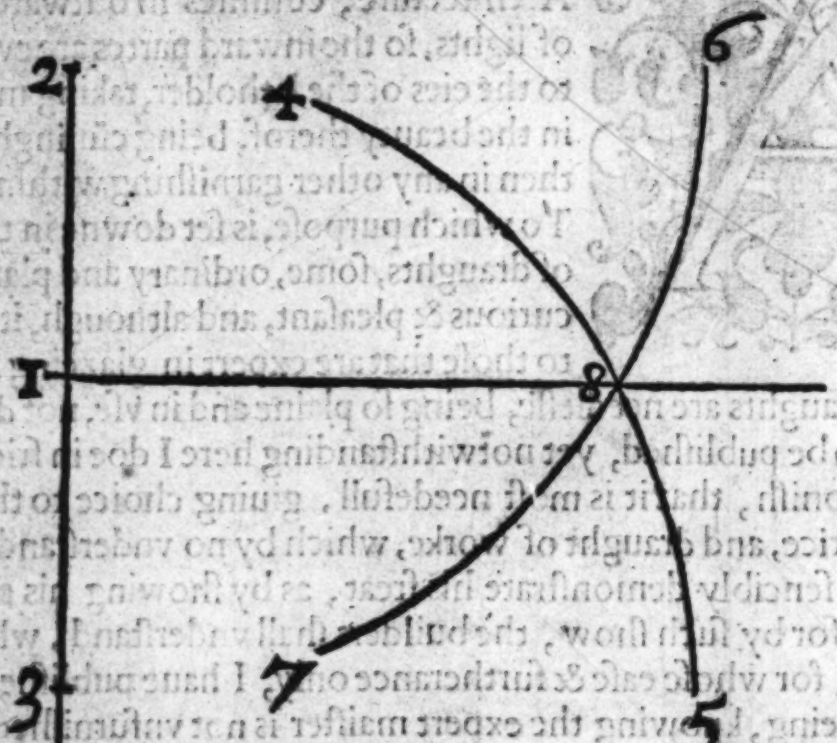
AS the principall beautie, and countenaunce of Architecture, conſiſtes in outward ornament of lights, ſo the inward partes are ever oppoſite to the eies of the beholder, taking more delight in the beauty therof, being cũningly wrought, then in any other garniſhing within the ſame. To which purpoſe, is ſet downe in this, variety of draughts, ſome, ordinary and plaine, others, curious & pleaſant, and although, it may ſeeme to thoſe that are expert in glazeing, that ſome of theſe draughts are needleſſe, being ſo plaine and in vſe, not deſeruing in this ſort to be publiſhed, yet notwithſtanding here I doe in friendly courteſie admoniſh, that it is moſt needefull, giuing choice to the builder, both for price, and draught of worke, which by no vnderſtanding can the Glazier ſo ſencibly demonſtrate his freat, as by ſhowing his examples of draught, for by ſuch ſhow, the builders ſhall vnderſtand, what to make choice off, for whoſe eaſe & furtherance only, I haue publiſhed this practiſe of glazeing, knowing the expert maiſter is not vnfurniſhed of theſe vſuall draughts, though each workeman haue not all of them.

And for the further benefit of the practiſer, there is herevnto annexed dyapring on each draught, either to be wrought or left, as it ſhall pleaſe the builder, moſt pleaſant to all that are willing to haue the ſame: Therefore haue it not in light regard, for the vſe thereof, will giue you great delight, and worthy to be practiſed, as a ſpeciall ornament to building, and will beautifie the Glaziers worke, be they neuer ſo expert.

So by obſeruing the order and rules here ſet downe, the maiſter or workeman ſhall not only ſee a plaine way, to imitate and follow thoſe draughts, in glazeing and painting on glaſſe: but the ſimpleſt, and vnskild prentice, ſhall reape full and perfect vnderſtanding thereby: praying the Almighty, to bleſſe your labours in following the ſame.

Wa: Gedde.

THE MANNER TO DRAWE THE SQVARE.



Direction

Directions how to make your Square.

First then concerning the square, which although it be cõmon to sundry artificers, each one hauing his owne forme and deuise, in drawing of it, some by deuision of halfe circle, some by other rules: there is herefore set downe a more perfect and readier way for any worke in draught, and also if neede be, to try the square rule thereby: for certainely, glasse worke of all others, requires most an exact square, for the distance, of one haire out of square, will deface the whole worke, and bring it out of all frame.

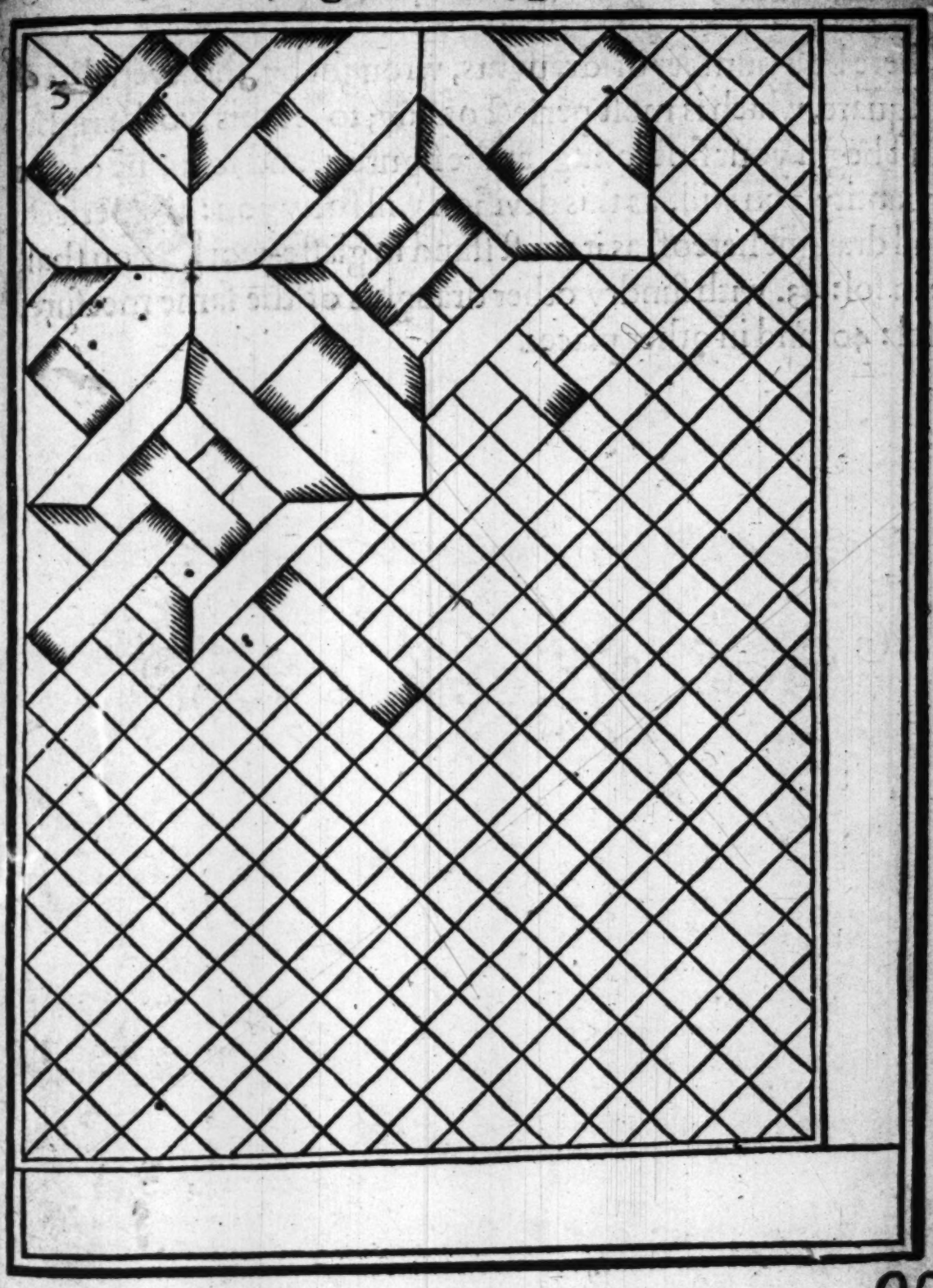
The ordering of the square.

To drawe this square: First you must drawe your line draught so long as your worke requireth, marking right theron with your compasse, three points of alike distance, next, devide your compasse larger, setting the one point on the figure 2. & with the other drawe a quarter circle betwixt 4. and 5. after, remoue your compasse to the figure 3. and drawe a crosse circle ouer betwixt 6. and 7. and whersoever the iust middle of the crosse appeareth, marke the same with the point of the compasse, as you may perceiue in the character, by the figure 8. lastly, drawe a draught, betwixt the figure 1. and the crosse point by the figure 8. and thou shalt find a pertect square to conduct thee all thy draughts. As on the former side is shewed.

To make this more plaine to the practiser, the square draught for the most part passes on three severall deuisions, the first, on a declining, or collaterall square, others, on euen squares, and the third, interlaced with both: This declining deuision and setting this worke thereon, must begin after the forme you perceiue here on his deuision, and may be extended, in any quantity you please: the perfect draught of this worke, and how it shall stande in glasse, you shall finde it in fol: 38. & other draughts also agreeable to the same measure, in sundry other places, as in fol: 16. 27. 47. and others.

It is also to be vnderstood, that the shadowing, and darkning, set downe in all those freats and draughts, demonstrates the diapring, which is for the vse of those that desire to haue their worke beautified with the same, and the plaine draught, is the conuoy, and course of the lead, which dyapring, must only be in gray, or blew colour, as is largely set downe amongst the rules of colour.

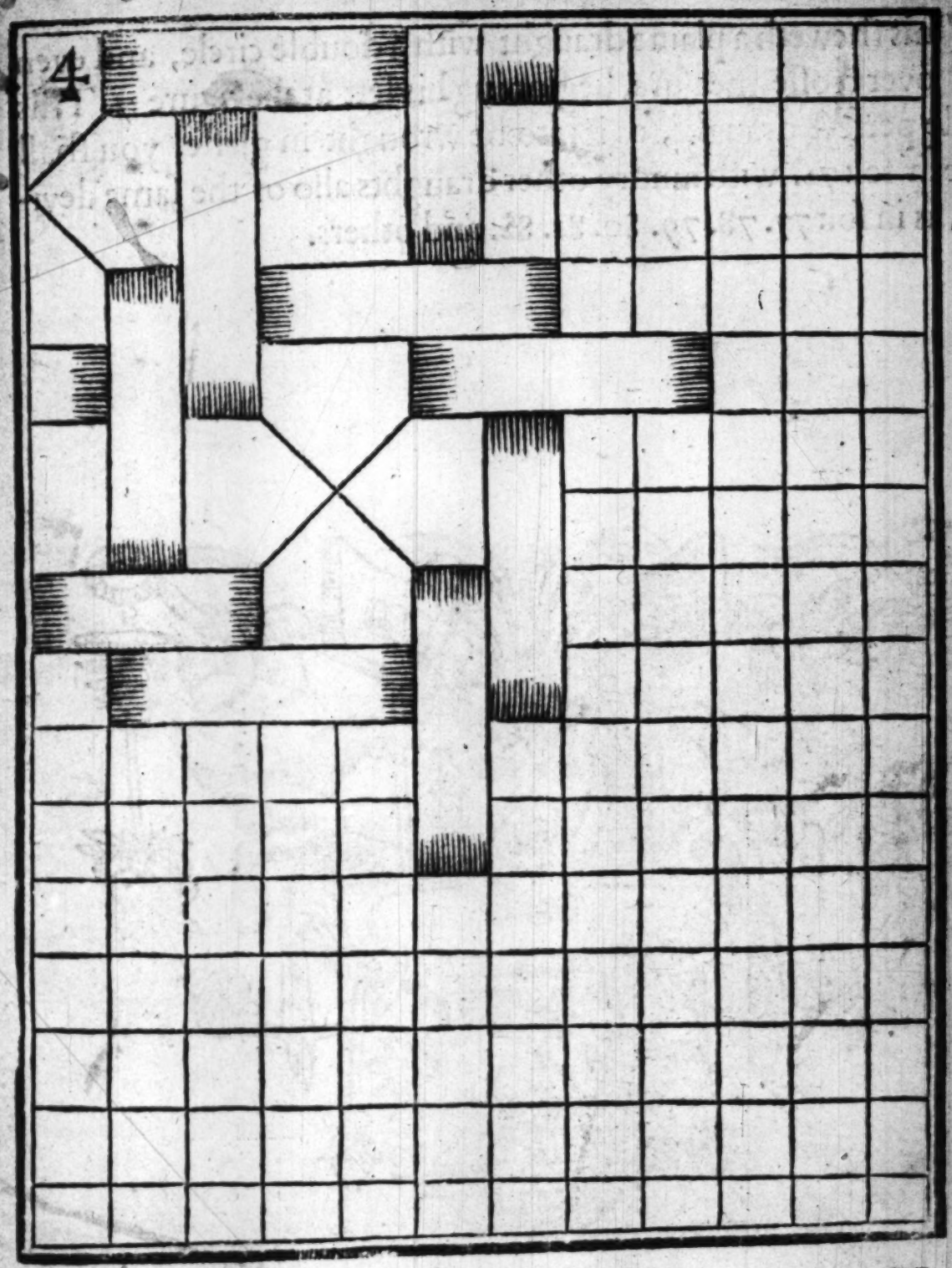
Begin this at the figure 3.



Of

There be a number of draughts, wrought by this even direct ſquare, which is moſt perfect of any; to ſet this worke right, ye muſt begin your firſt loſing, at the figure 4. and ſo runne out in any quantity you will, as this deviſion will ſhew you: the perfect, and full draught hereof, as it muſt ſtand in glaſſe-worke, you ſhall finde in fol: 43. with ſundry other draughts of the ſame meaſure, as in fol: 40. and in other places.

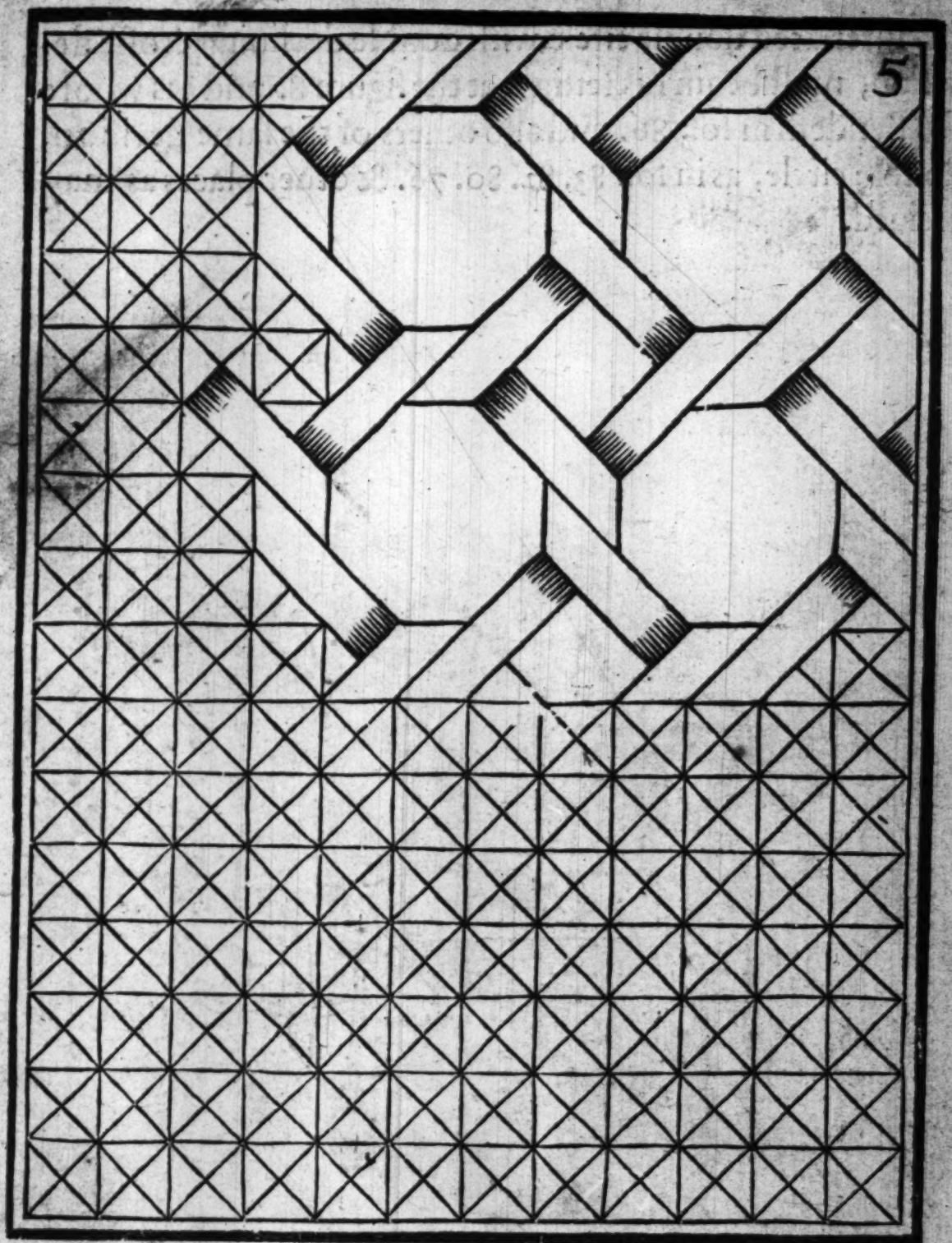
Begin at the figure 4.



This ſheweth a plaine draught with a double circle, and even over croſſe meaſure, beginniug his ſett at the figure 7. This whole perfect draught, as it is to be wrought in glaſſe, you ſhall finde in fol:72. with ſundry other draughts alſo of the ſame deviſion, as in fol: 77. 78. 79. 80. 81. 82: and others.

Begin

Begin at the figure 5.

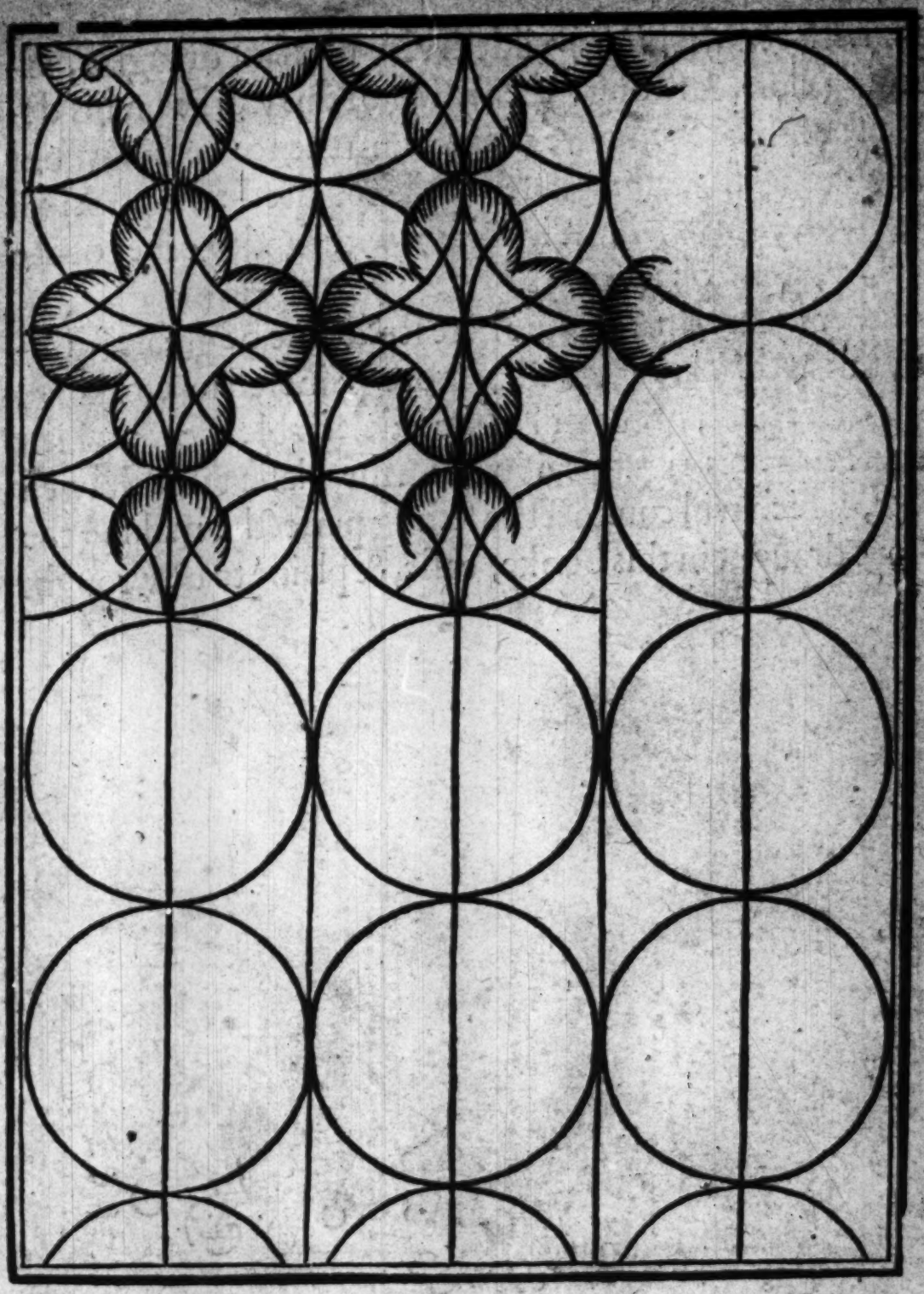


of

This Interlaced double circle, with double declining croſſe deviſion, muſt begin his ſetting, at the figure 8. and his whole draught ſtandeth in fol: 86. and alſo others of the ſame deviſion, with double circle, as in fol: 83. 82. 80. 76. & other places as may be perceiued.

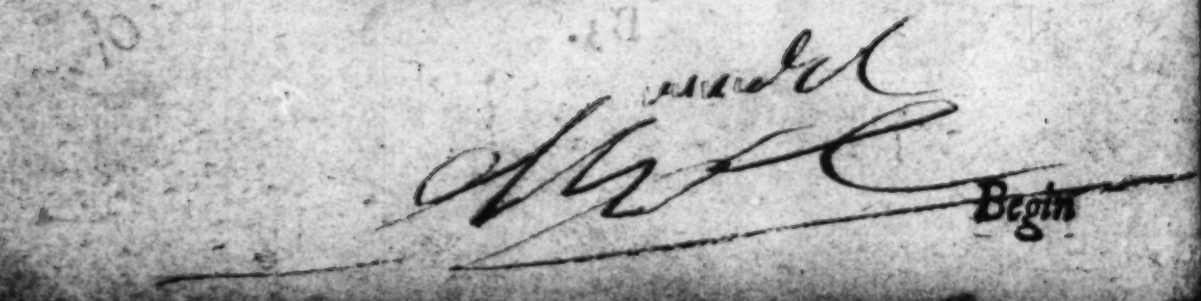
Begin

Begin at the figure 6.

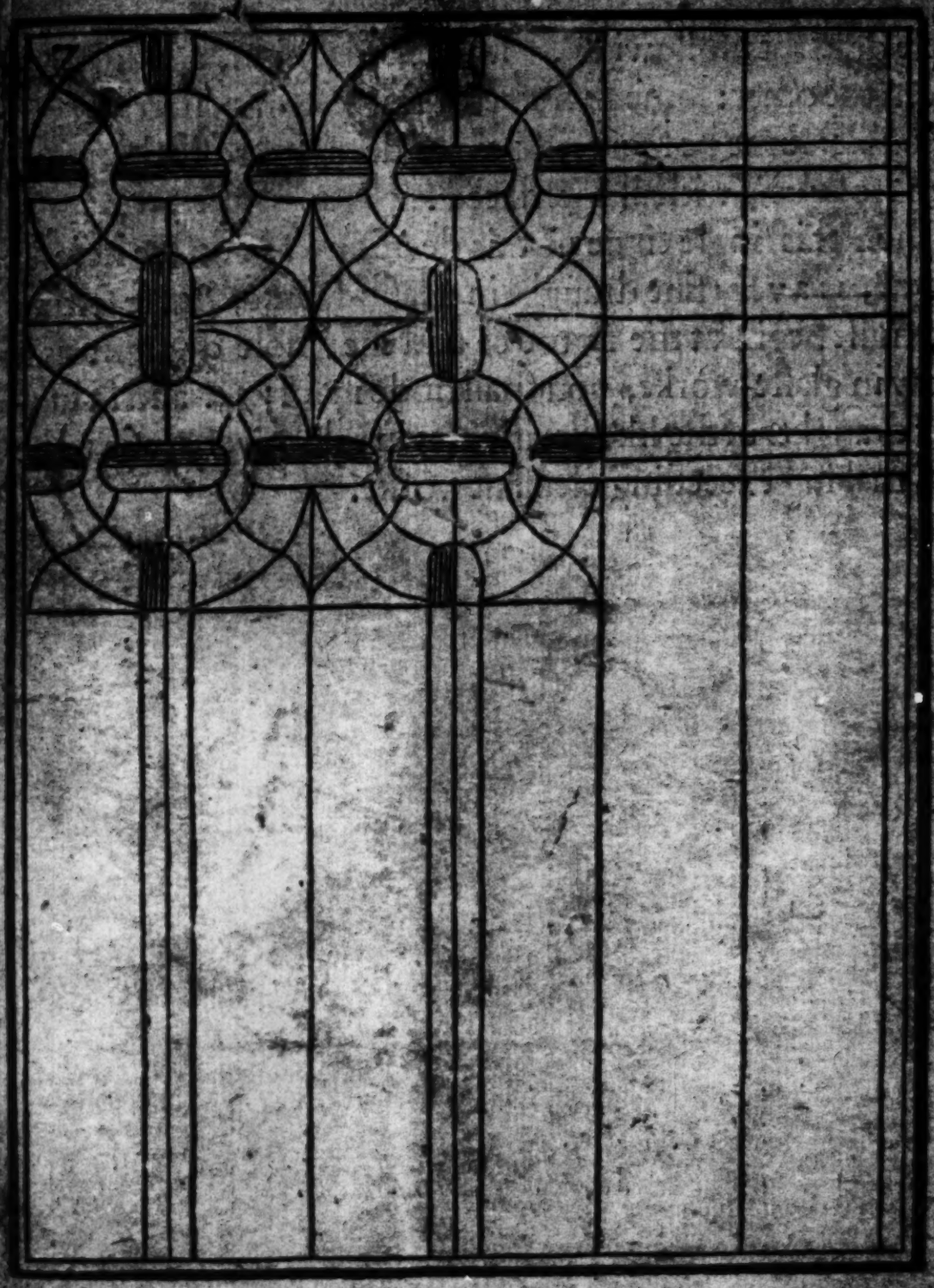


This interlaced deviſion, yeildeth very pleaſant draughts, exceeding cloſe, & ſtrong: the ſetting of this worke on his deviſion, muſt begin at the figure 5. and from thence to follow out to the full quantity that your glaſſe-worke requireth: the principal draught hereof, you ſhall finde in fol: 47. with ſundry other of the ſame meaſure, as in fol: 12. 27. 32.

Some other ſquare draughts are here ſet downe of greater difficulty, but as they are ſomewhat more painefull in working, ſo are they more pleaſant, & will make a delectable ſhow: which workes muſt haue his right deviſion, on the glaſſe table drawen with blacke, which will conduct the ſetting perfectly, making the moſt curious draught in this booke, eaſie, & plaine to be wrought in glaſſe.



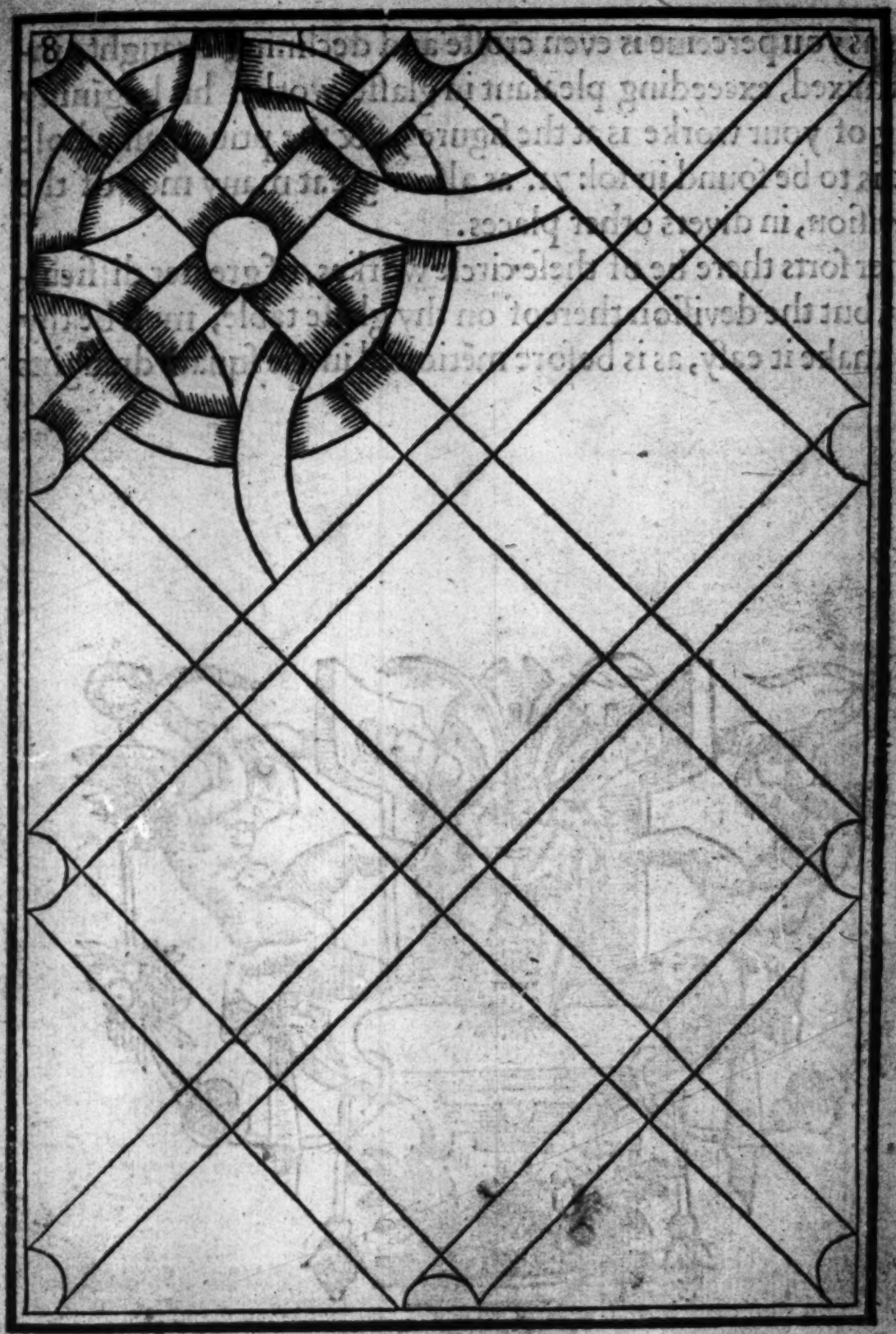
Bägin de vbe figure 7.



These draughts following, with their deviſion, are differing from the other: ſome there be of ſingle compaſſe draught, others double: ſome be ſquare, & cõpas decliing croſſe draughts, and euen croſſe and withall interlaced.

First then this ſingle circle of this deviſion, as you ſee here ſet downe, is a very fine draught in glaſſe-worke, & the ſetting thereof, muſt begin at the figure 6. and the whole draught as it muſt ſhow in glaſſe-worke, you ſhall finde in fol: 74. and in ſundry other draughts of the like deviſion, as in fol: 87. very eaſie to be wrought, making exceeding pleaſant worke.

Begin at the figure 8.



This as you perceiue is even croſſe and declining draught, intermixed, exceeding pleaſant in glaſſe-worke: his begining of ſetting of your worke is at the figure 9. & the principall whole draught is to be found in fol: 71. as alſo a great many moe of the ſame deviſion, in divers other places.

Other ſorts there be of theſe circle workes, of greater difficulty, but the deviſion thereof on thy glaſſe table, muſt be thy helpe to make it eaſy, as is before mẽtioned in the ſquare draughts

Begin at the figure 9.

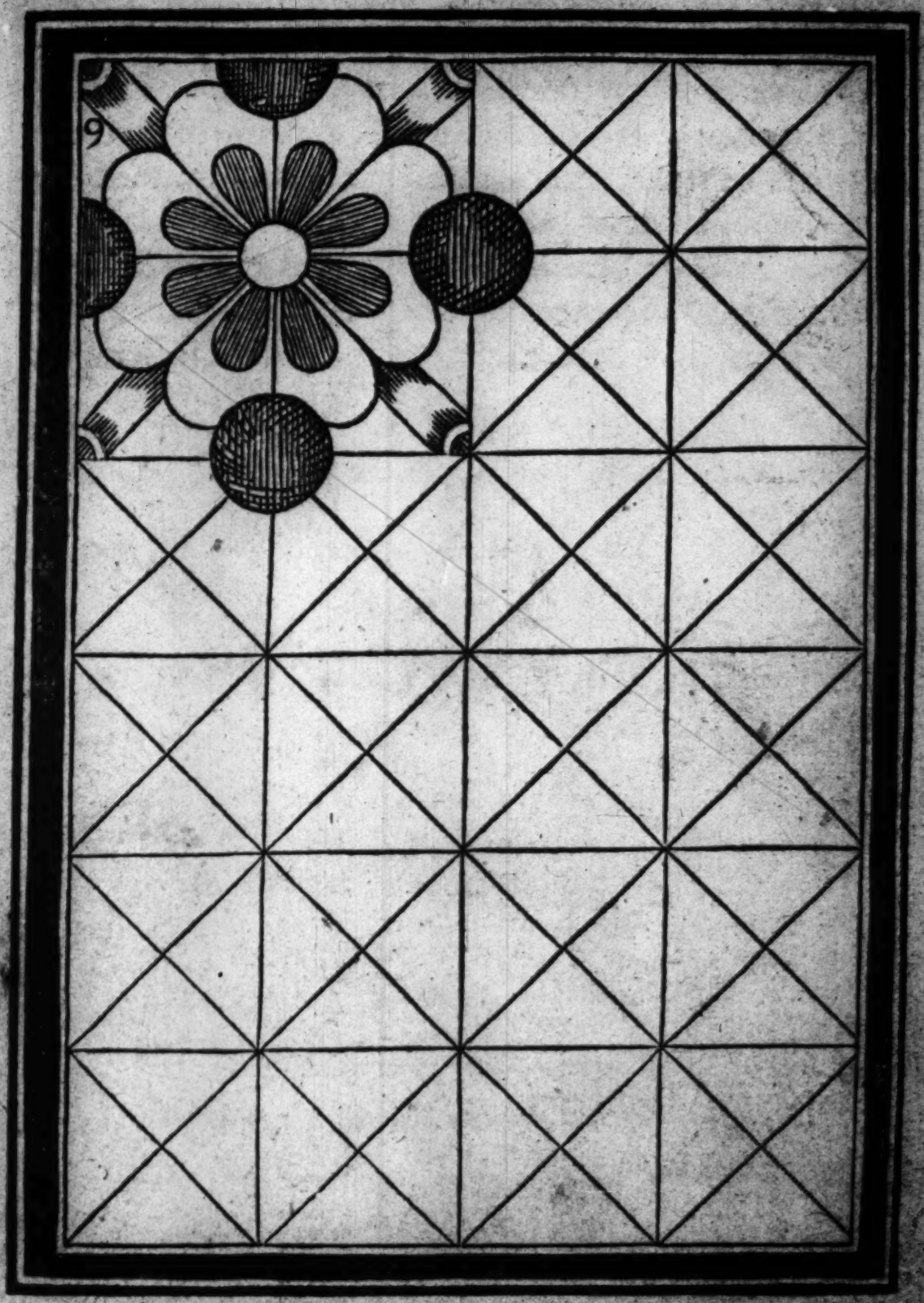
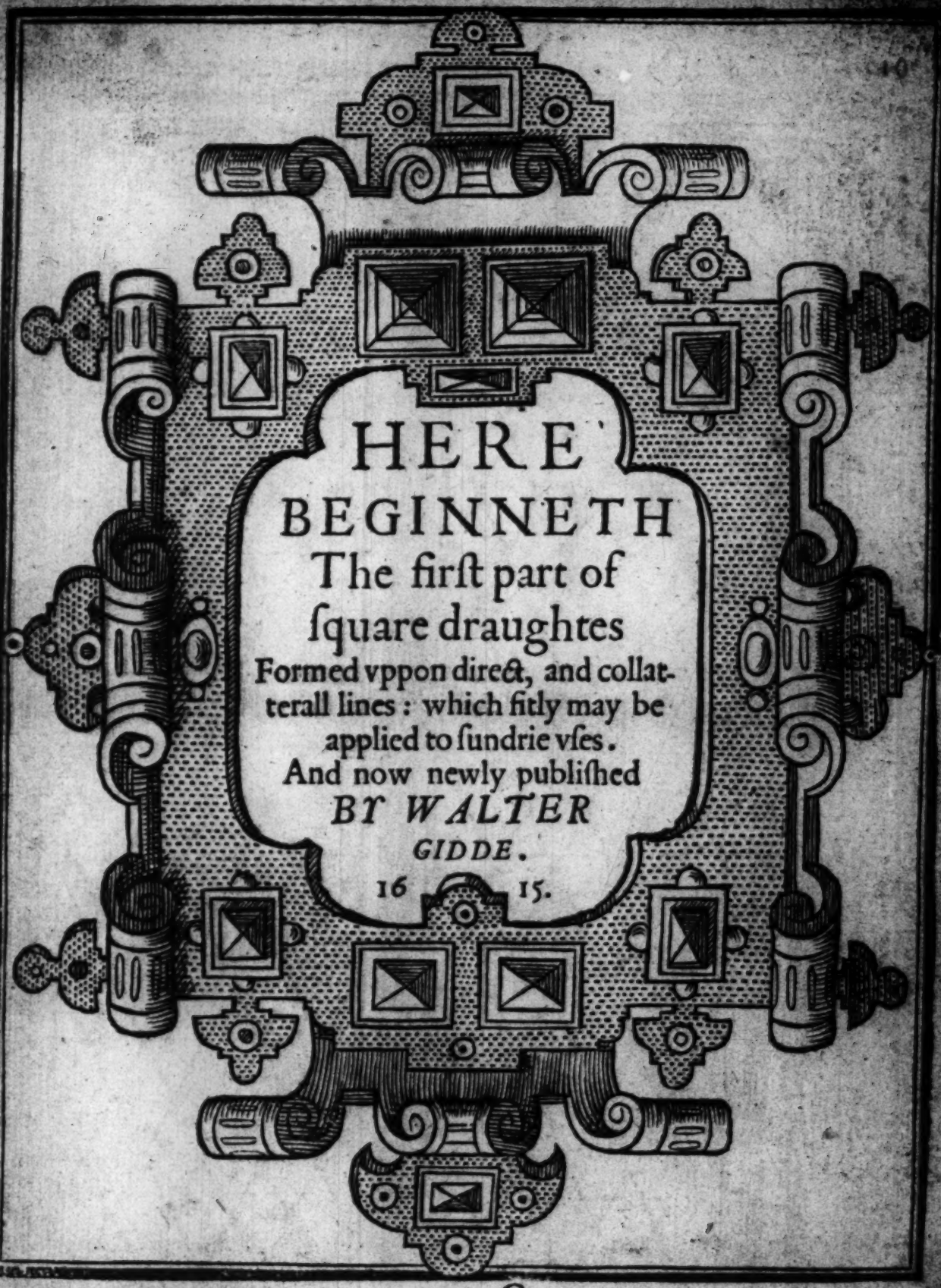


Plate to the Figure 9.



HERE BEGINNETH The firſt part of ſquare draughtes

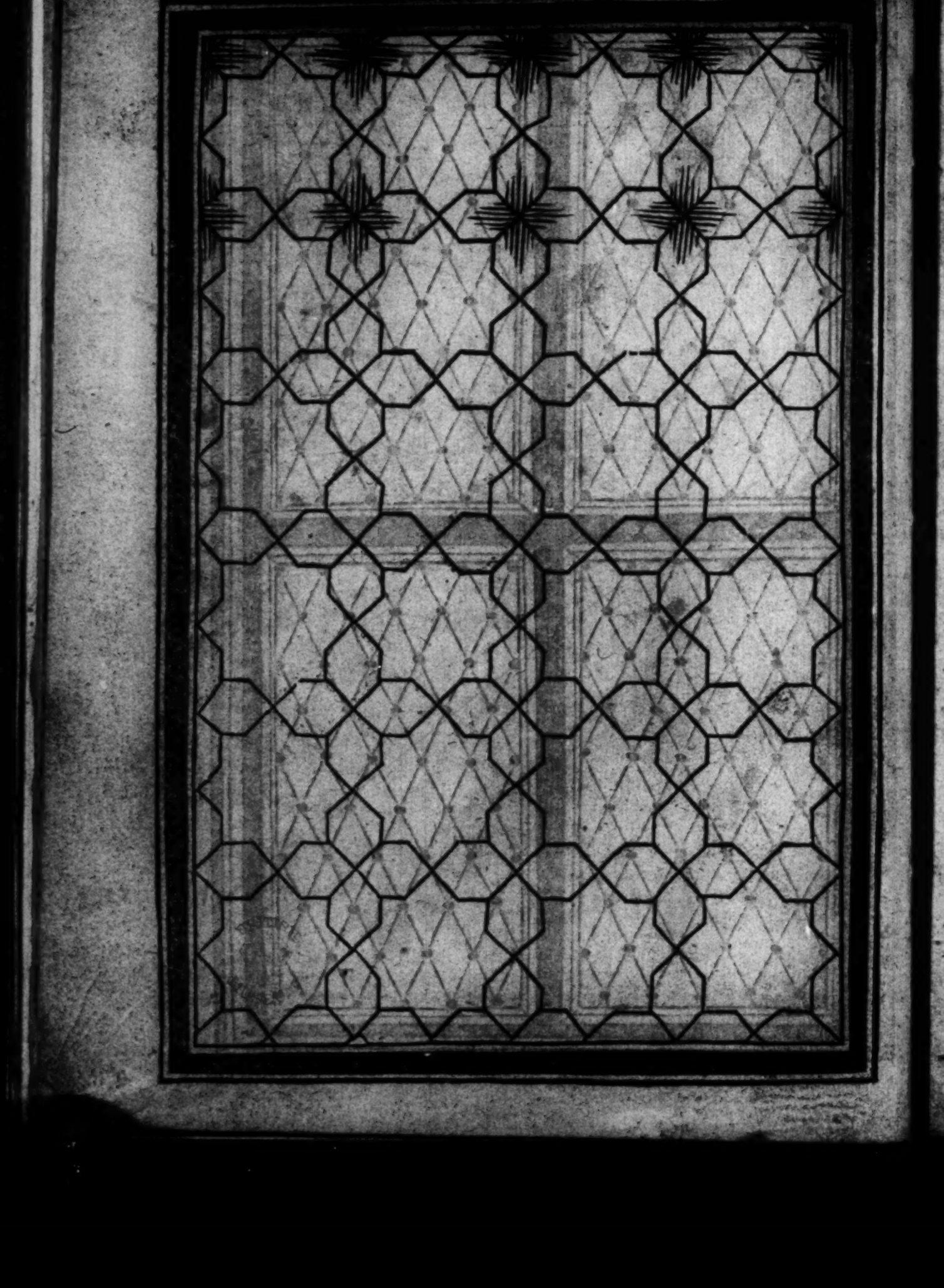
Formed vppon direct, and collatterall lines: which fitly may be applied to ſundrie vſes.

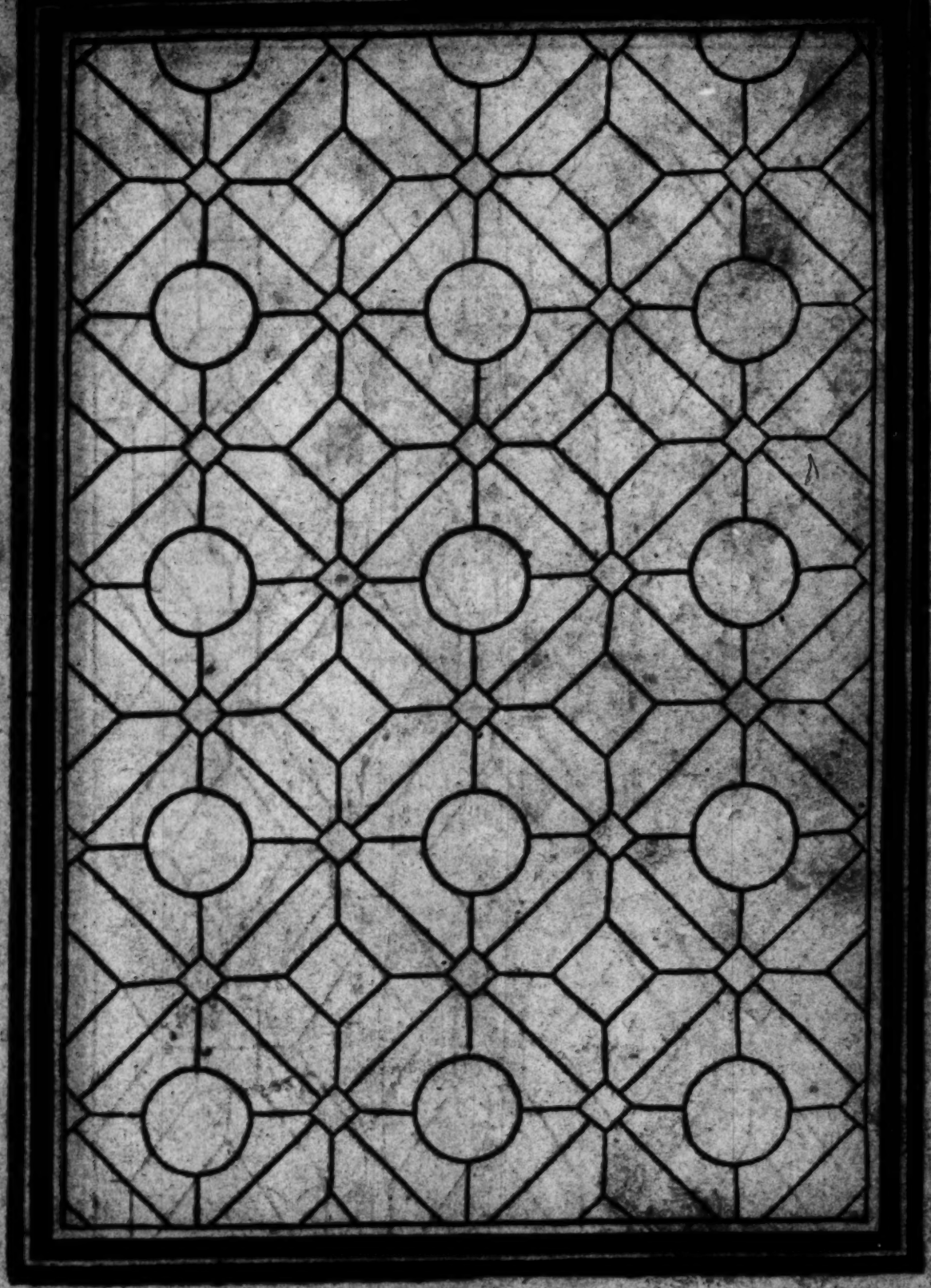
And now newly publiſhed

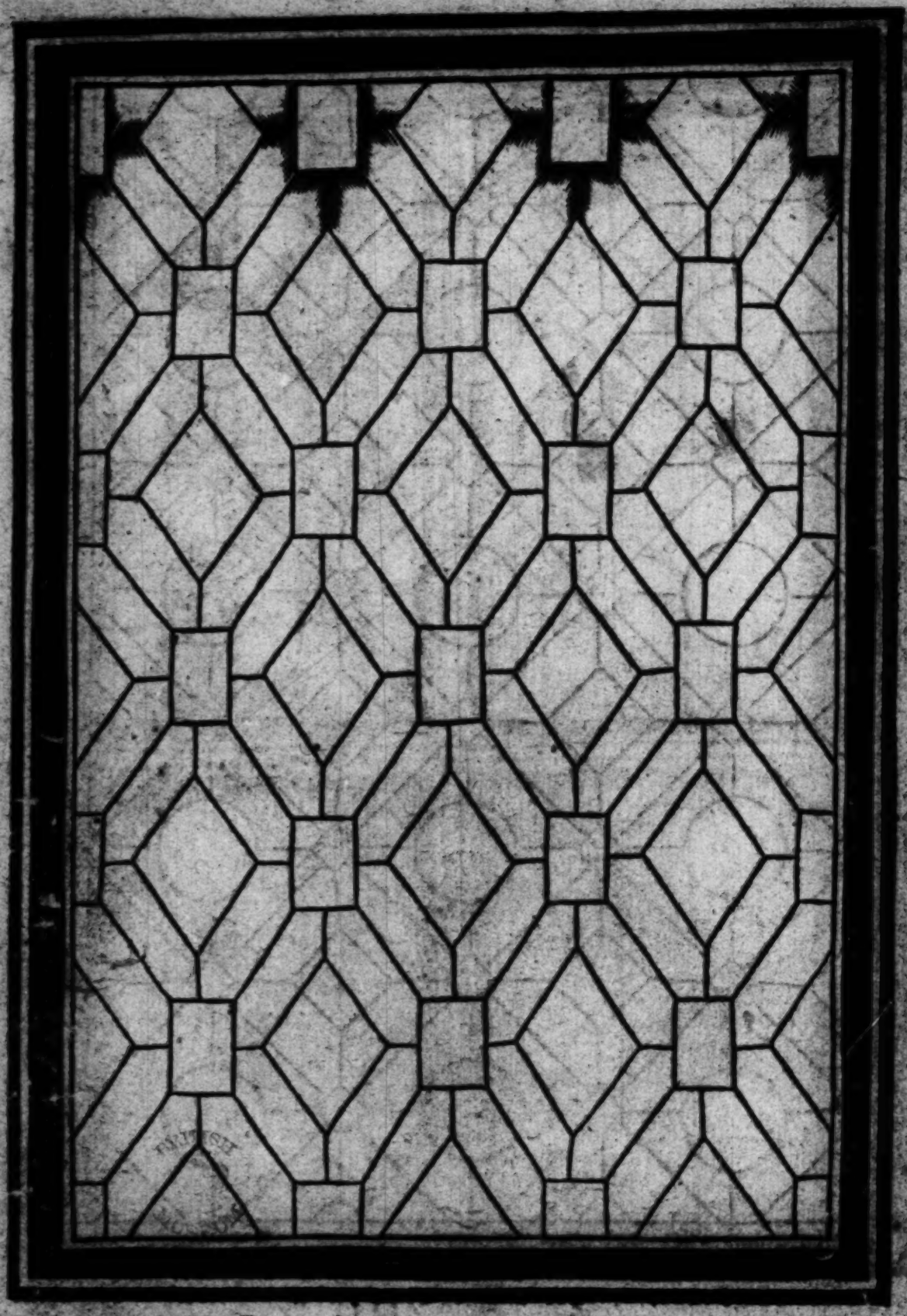
BY WALTER GIDDE.

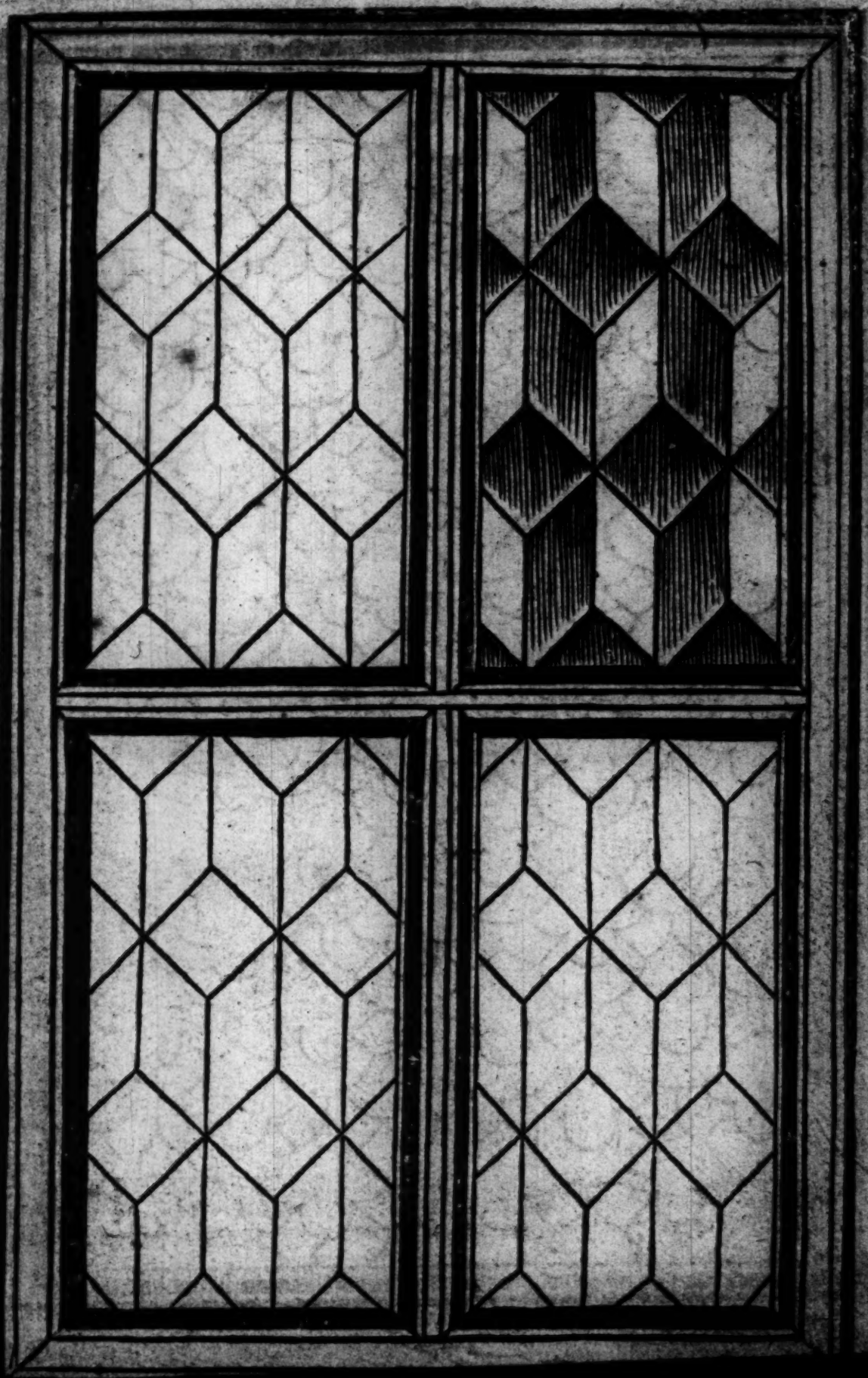
16 15.

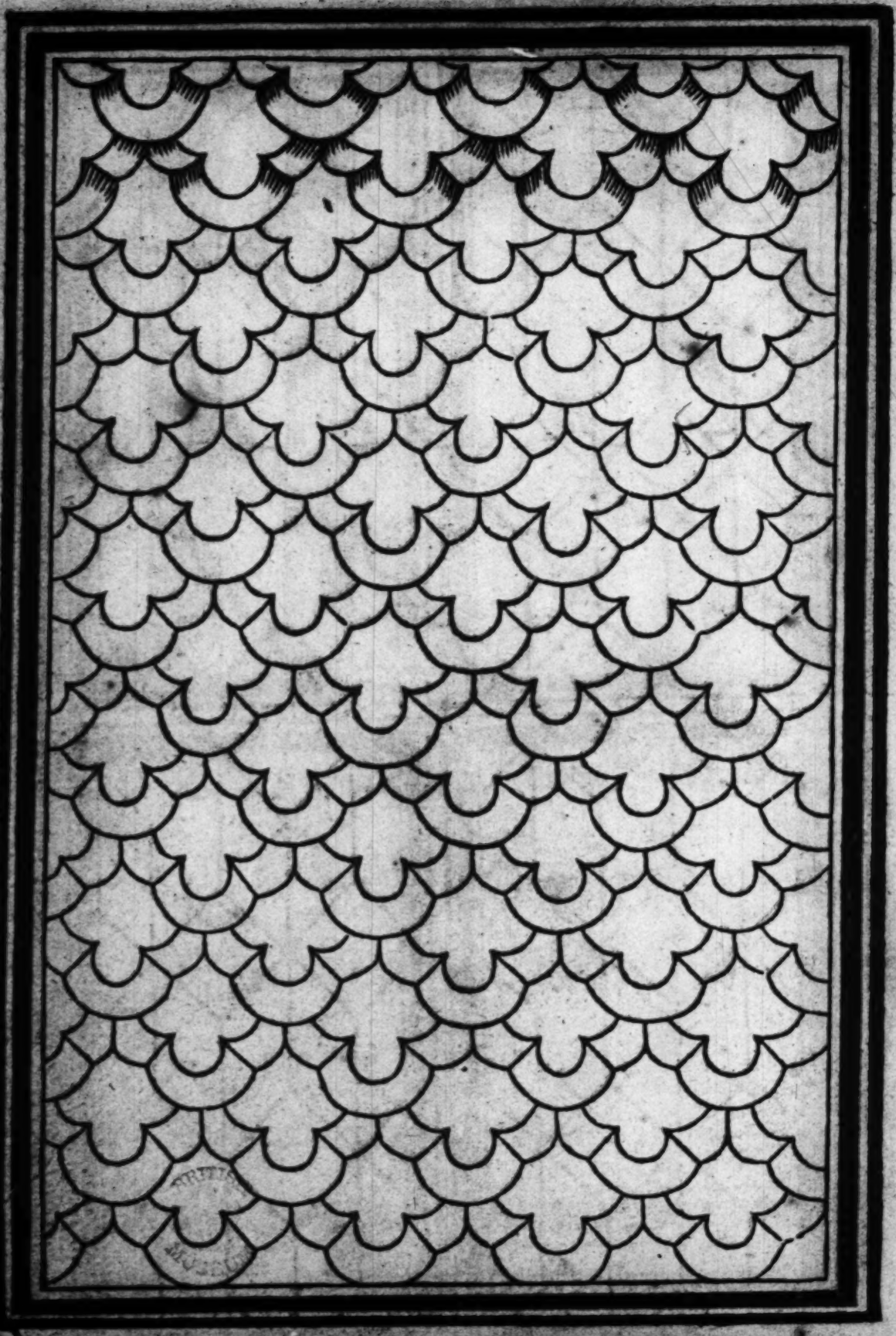
BEGINNETH
HERE

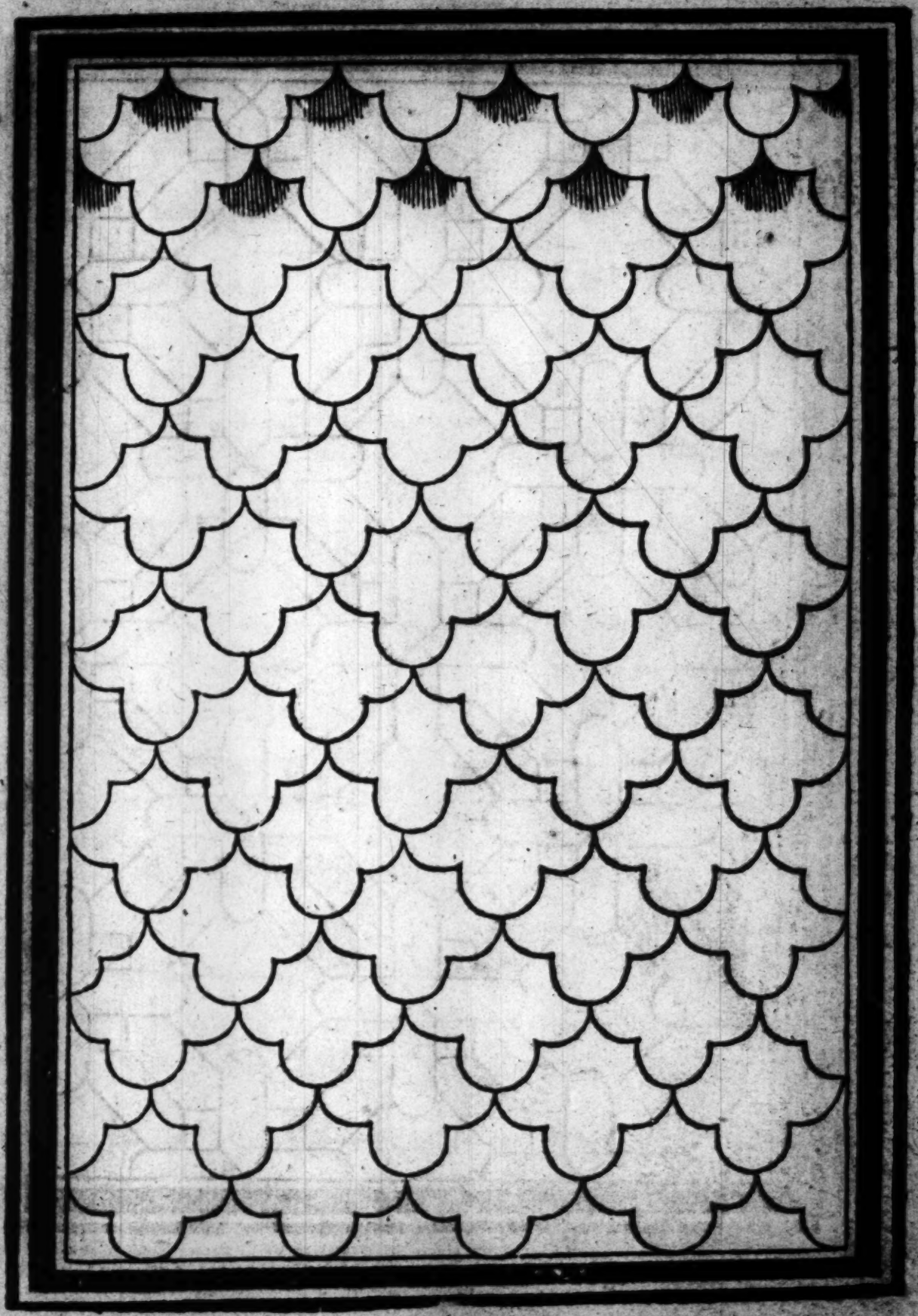


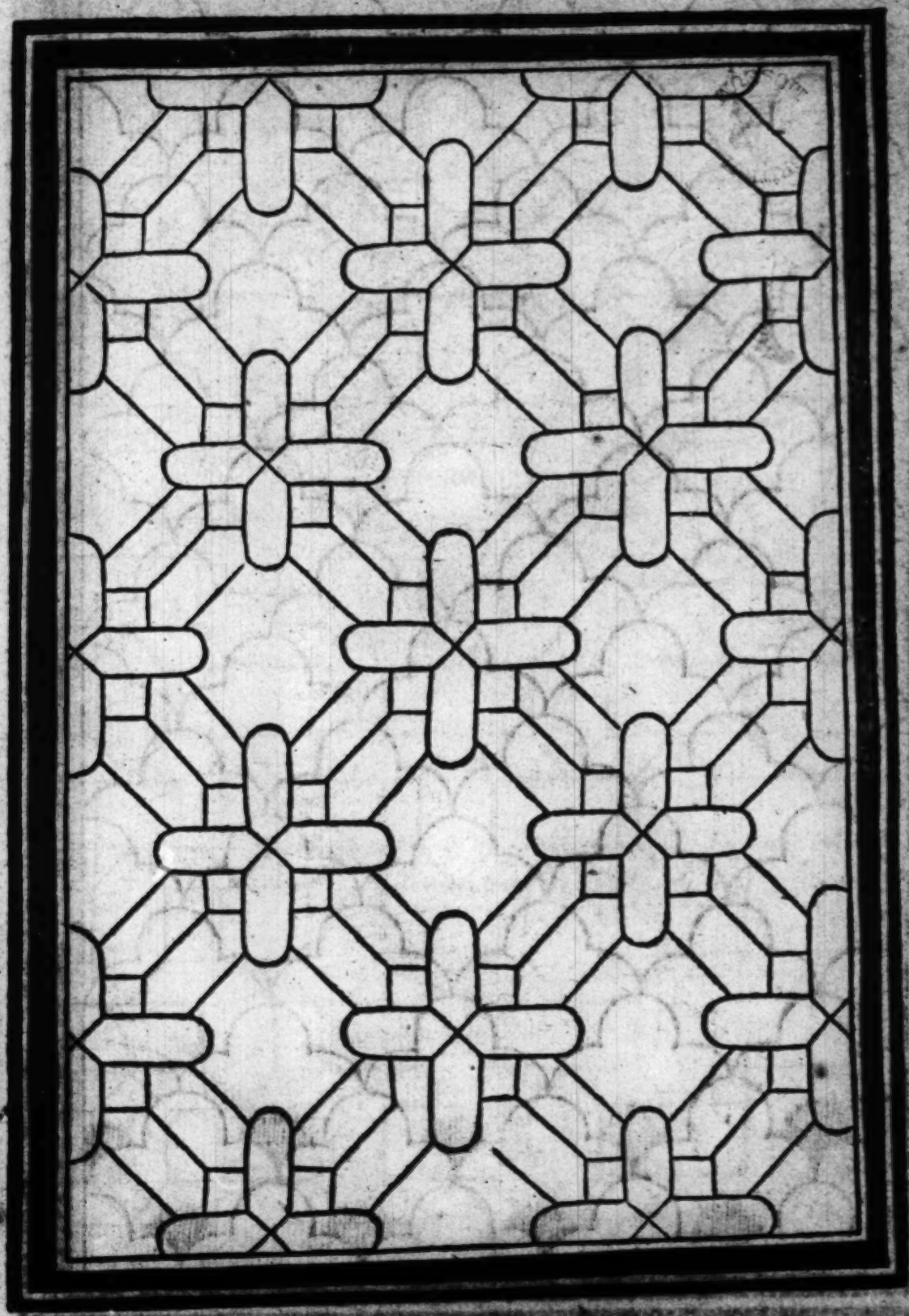


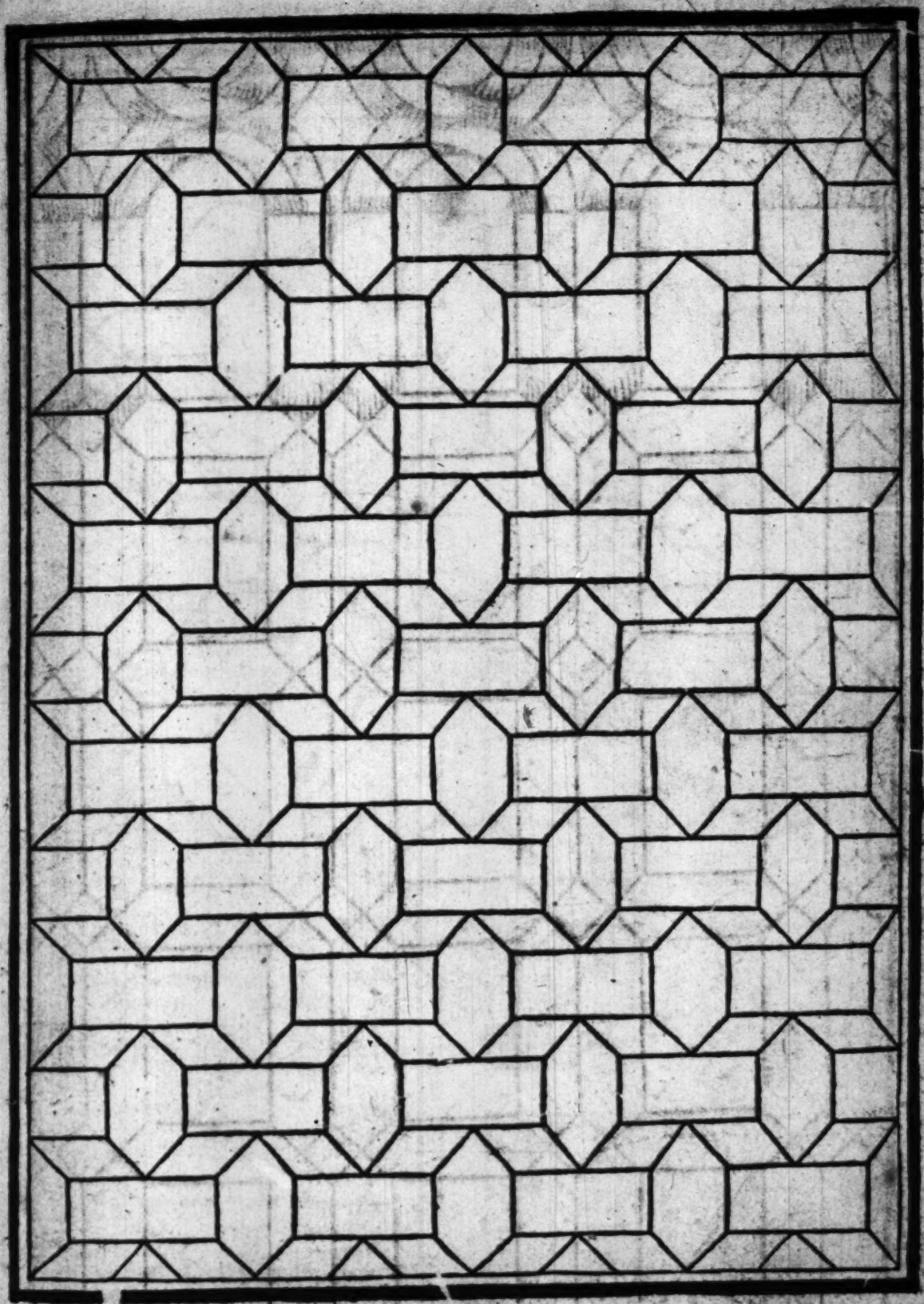


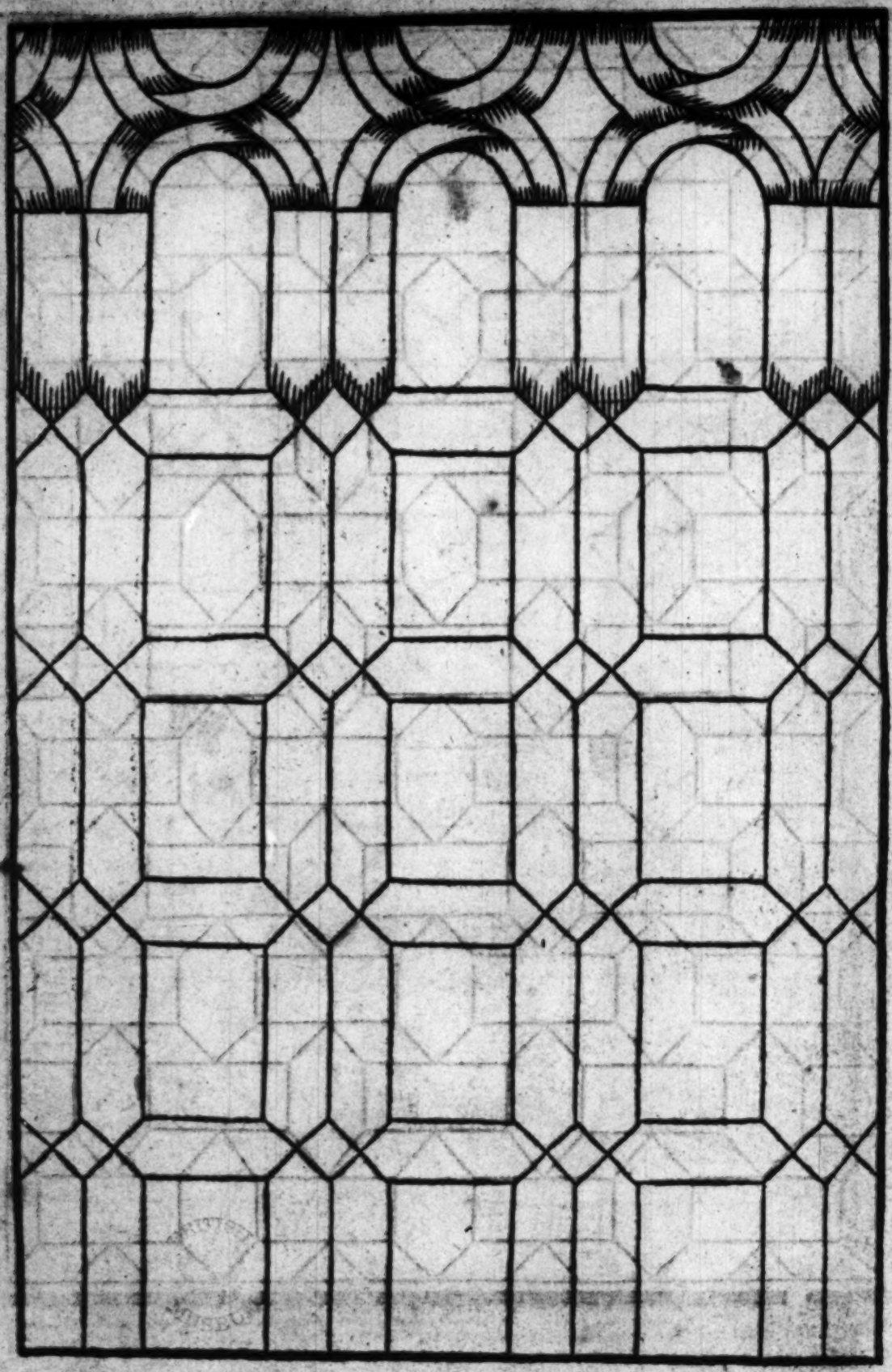


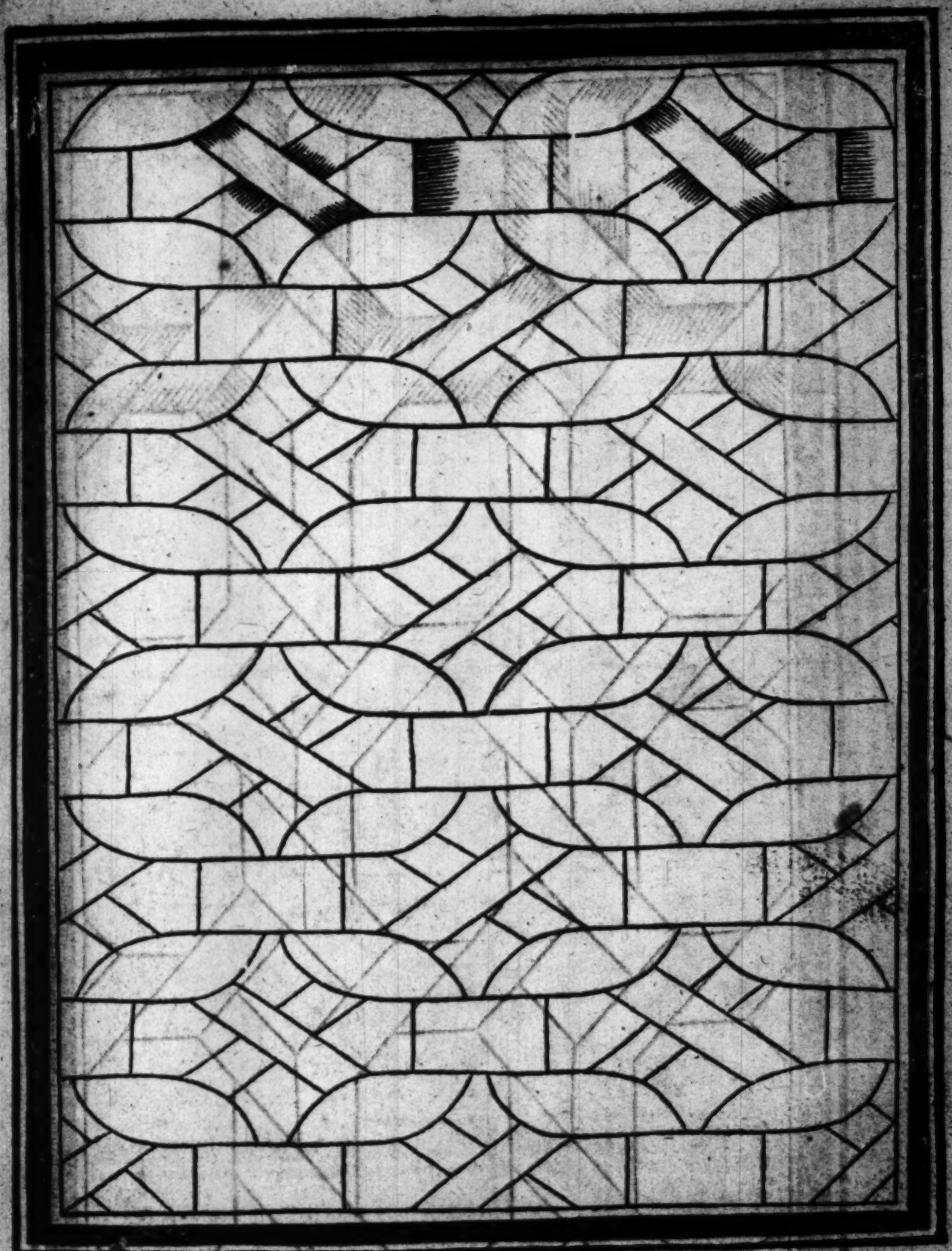












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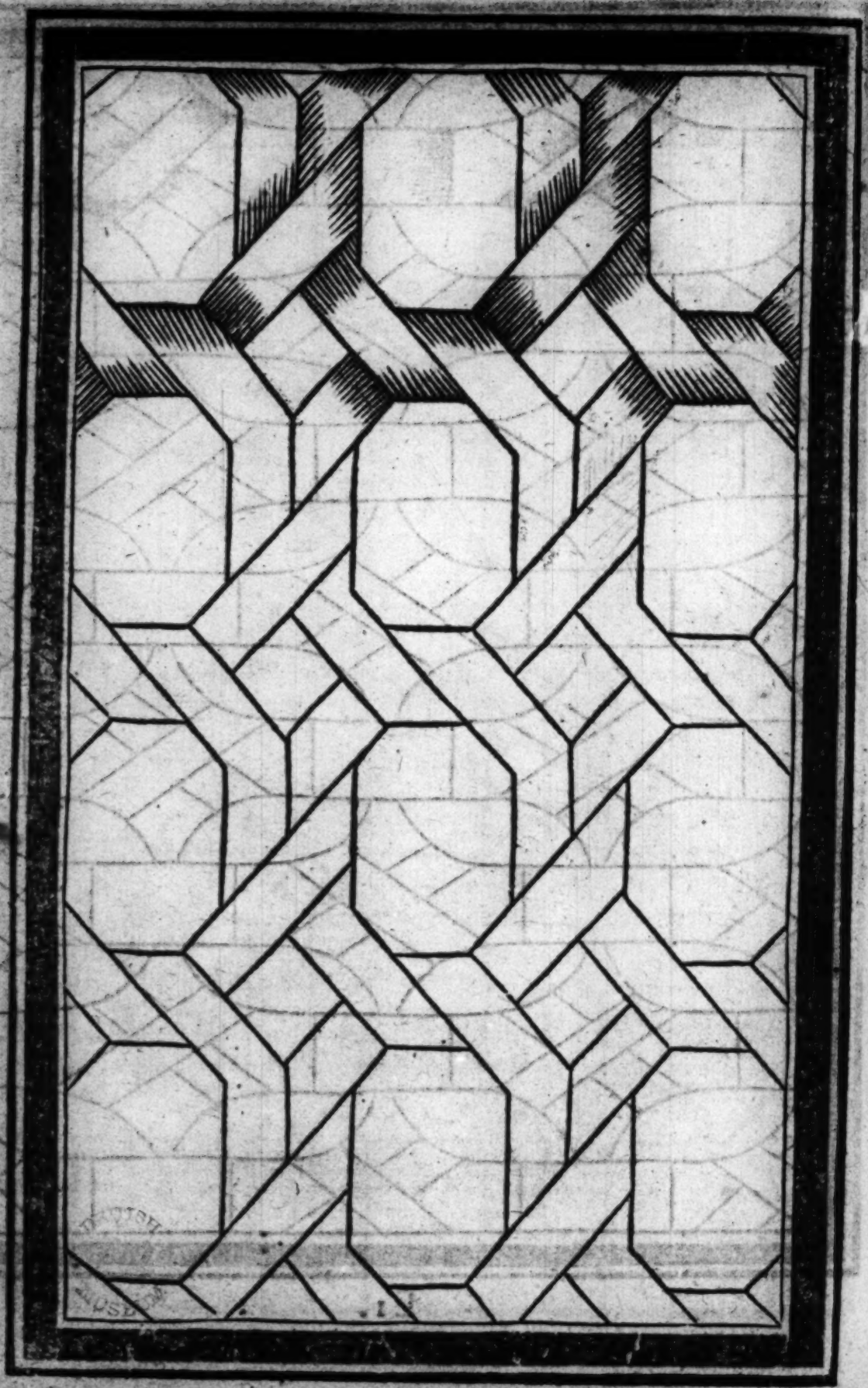
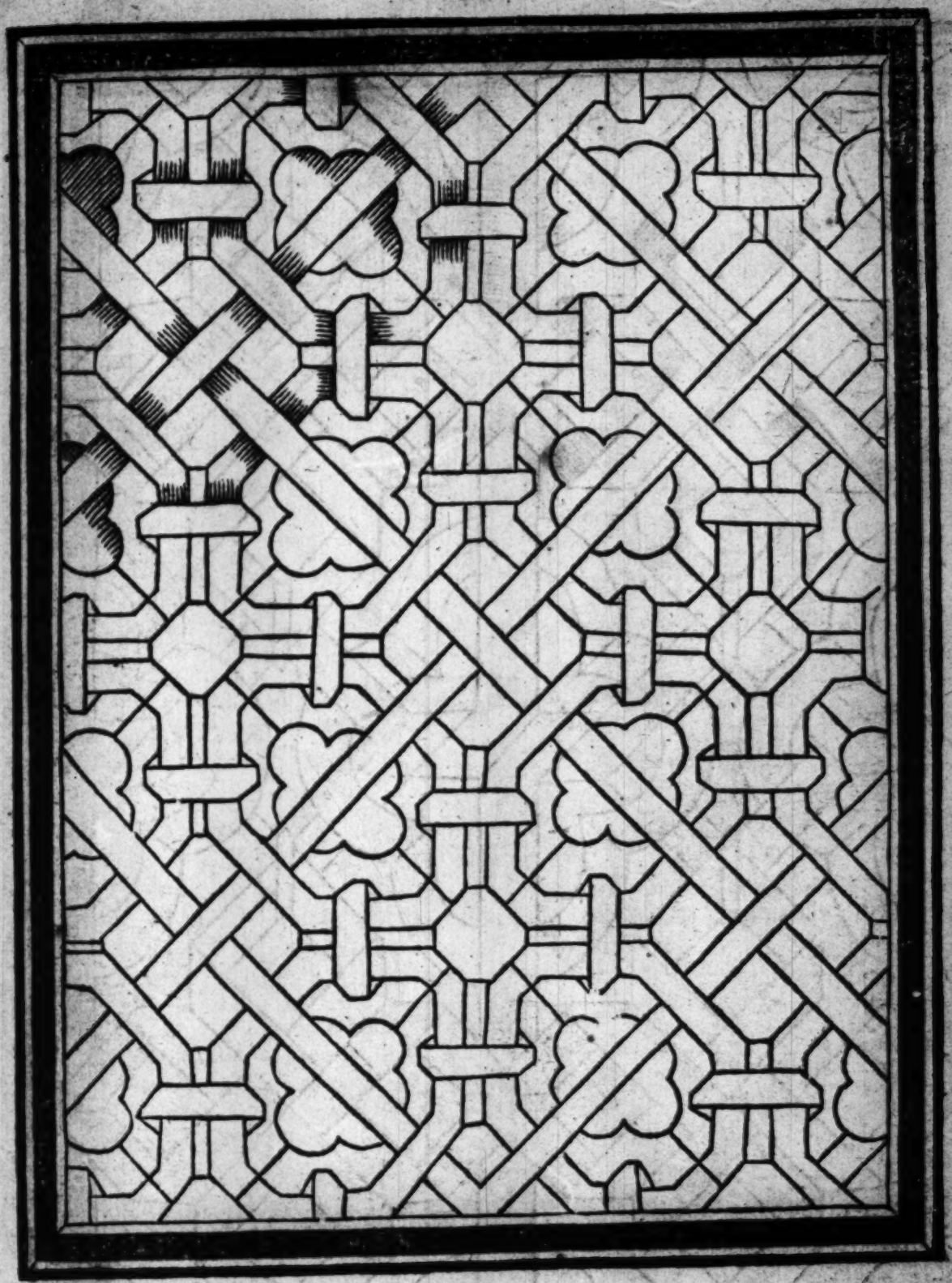
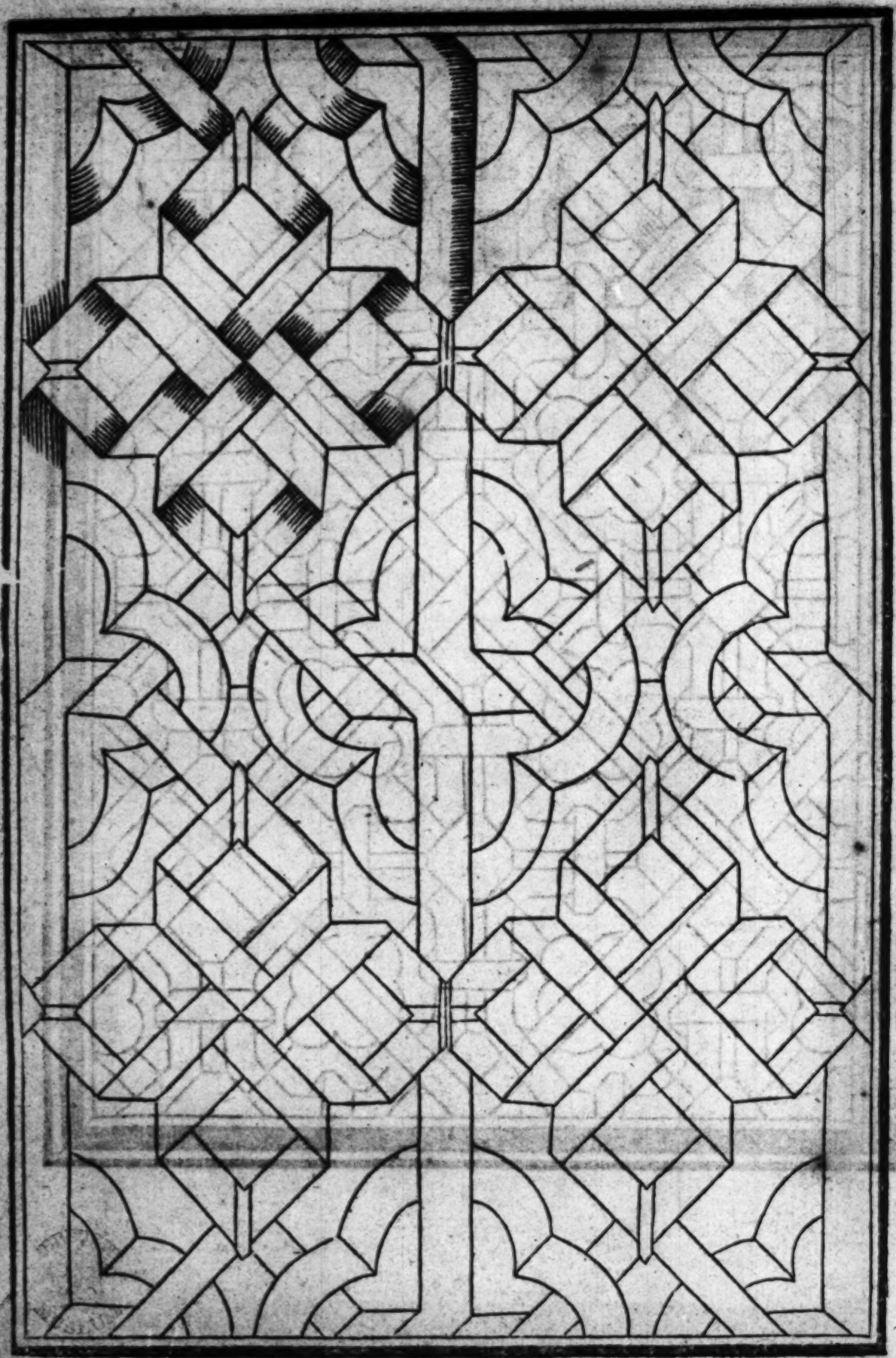
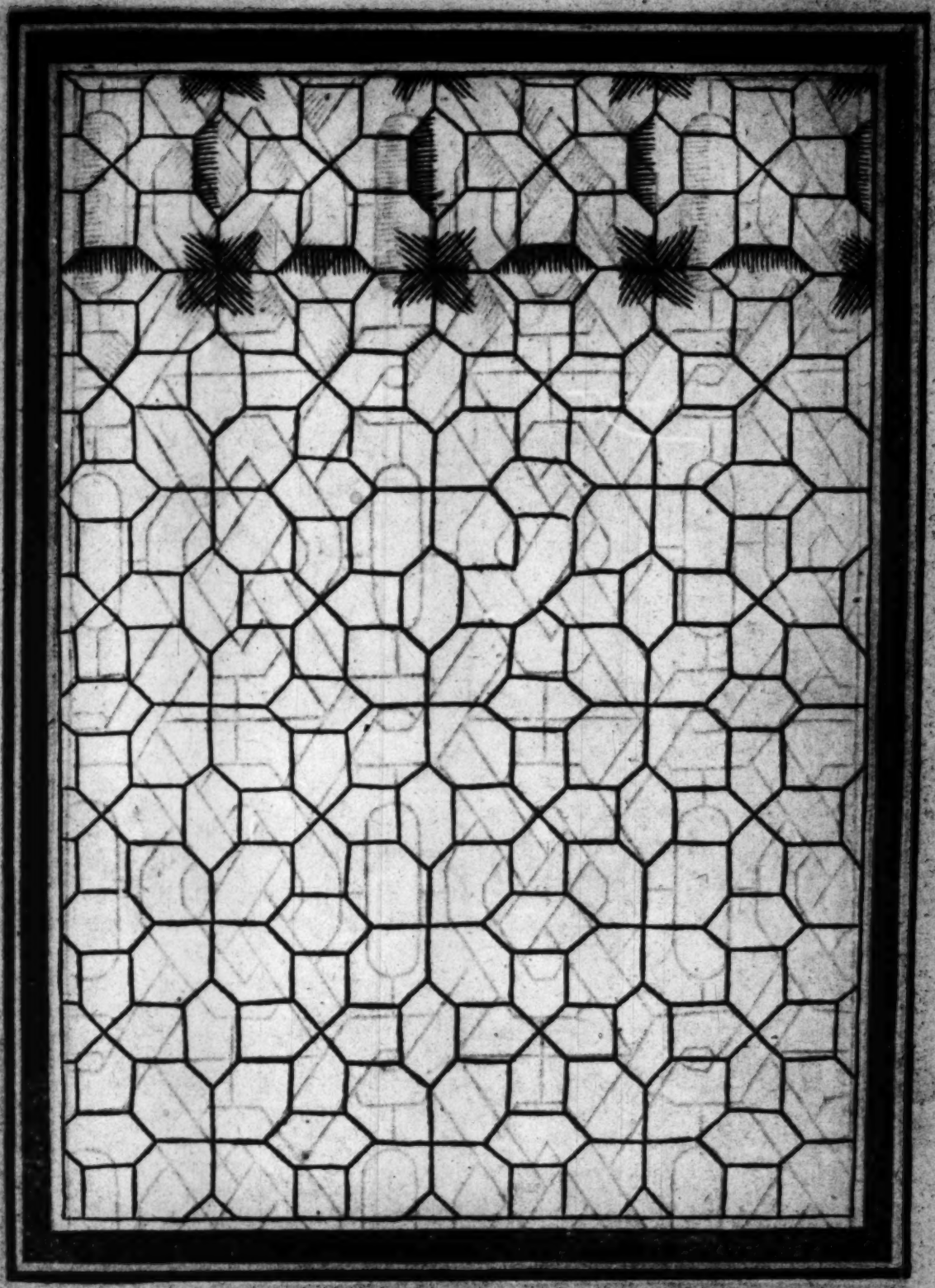
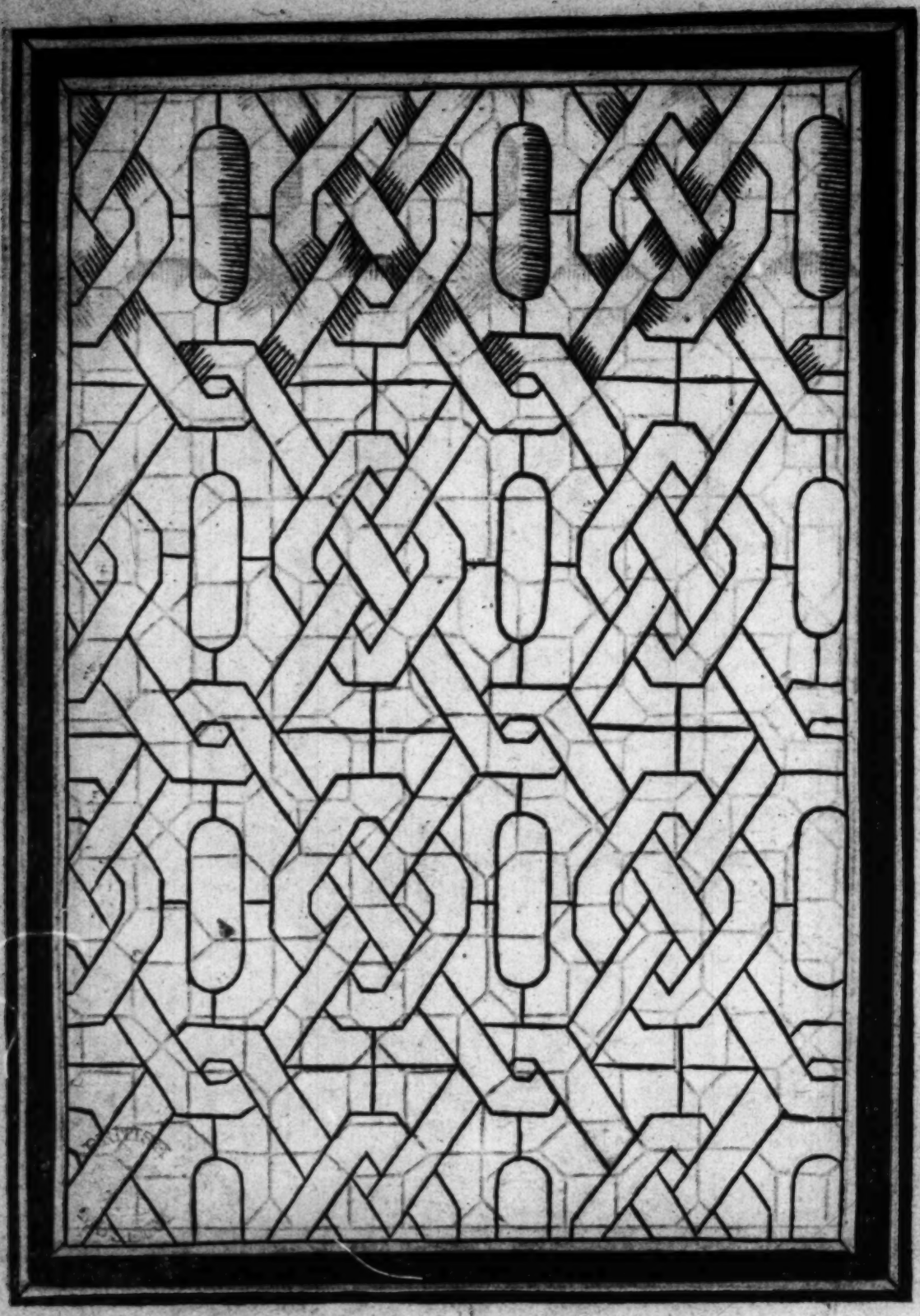
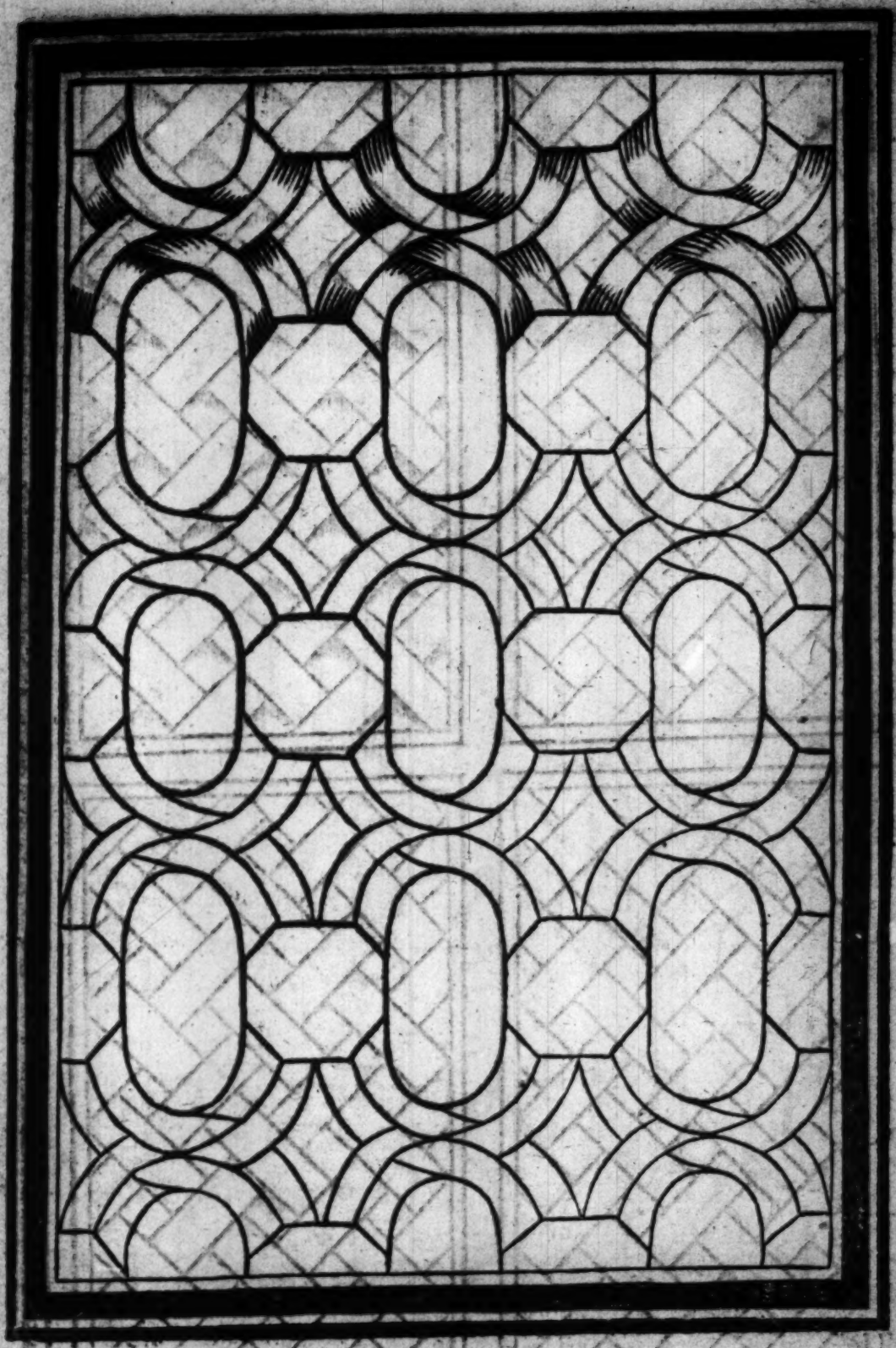












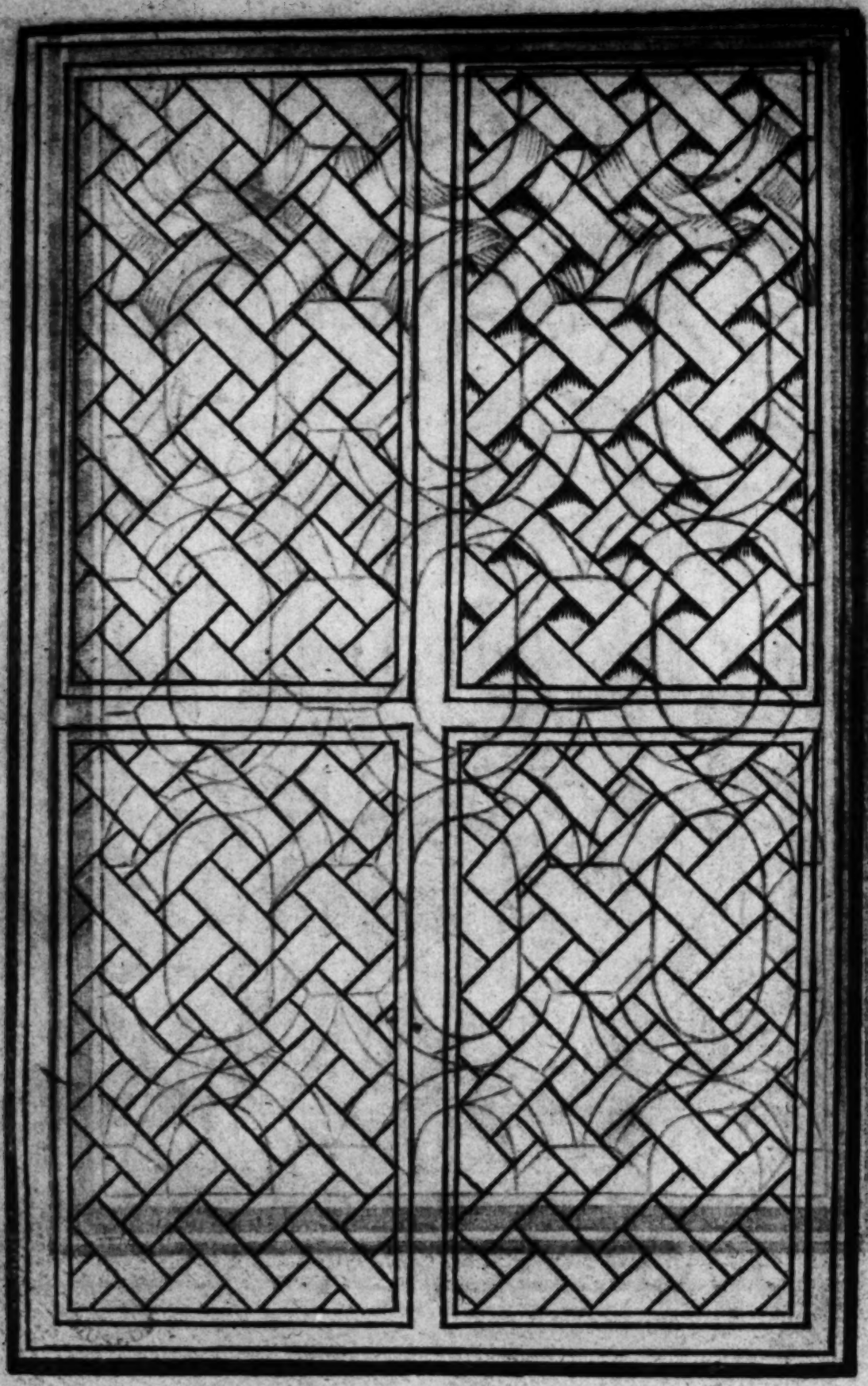
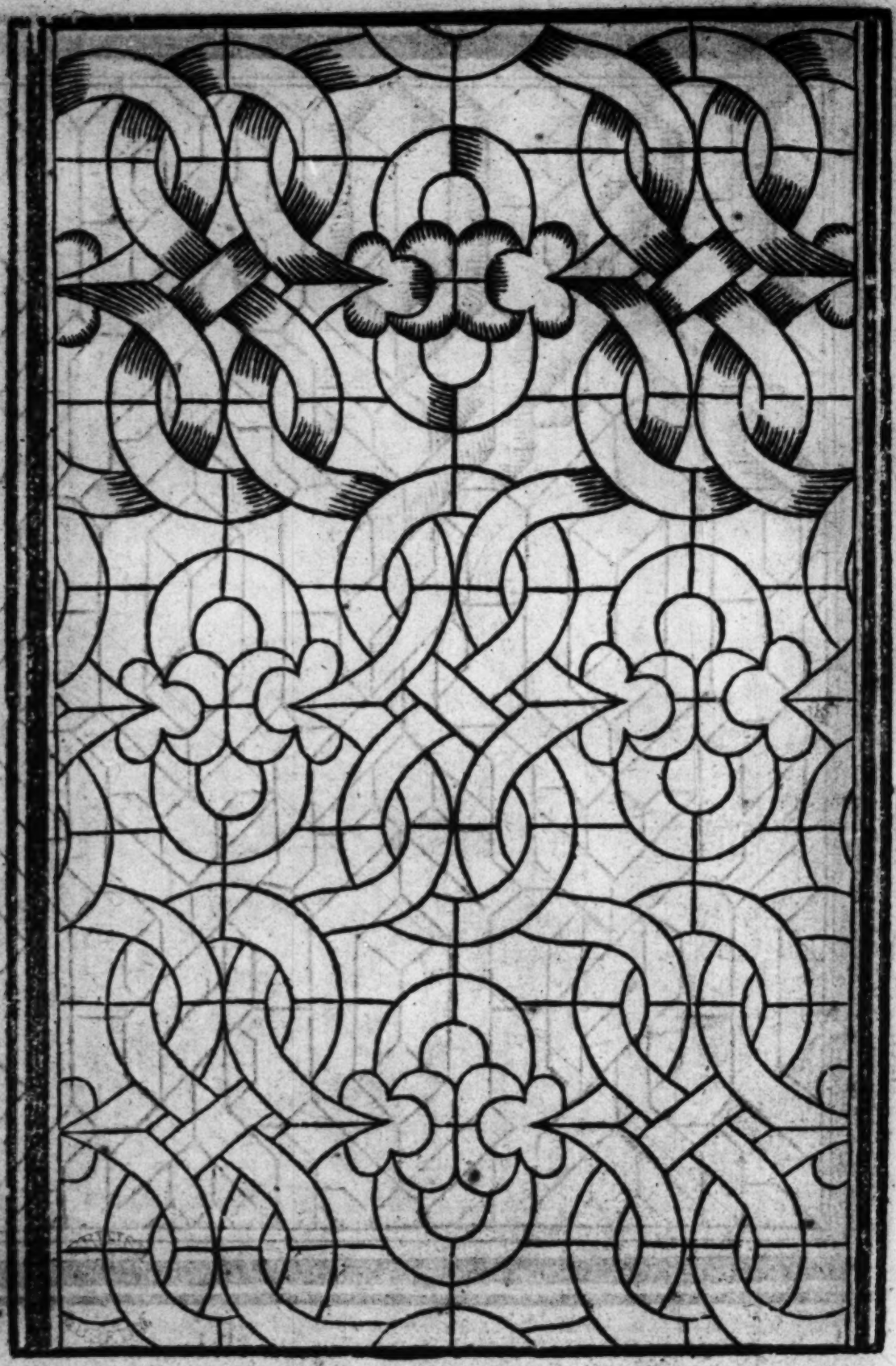
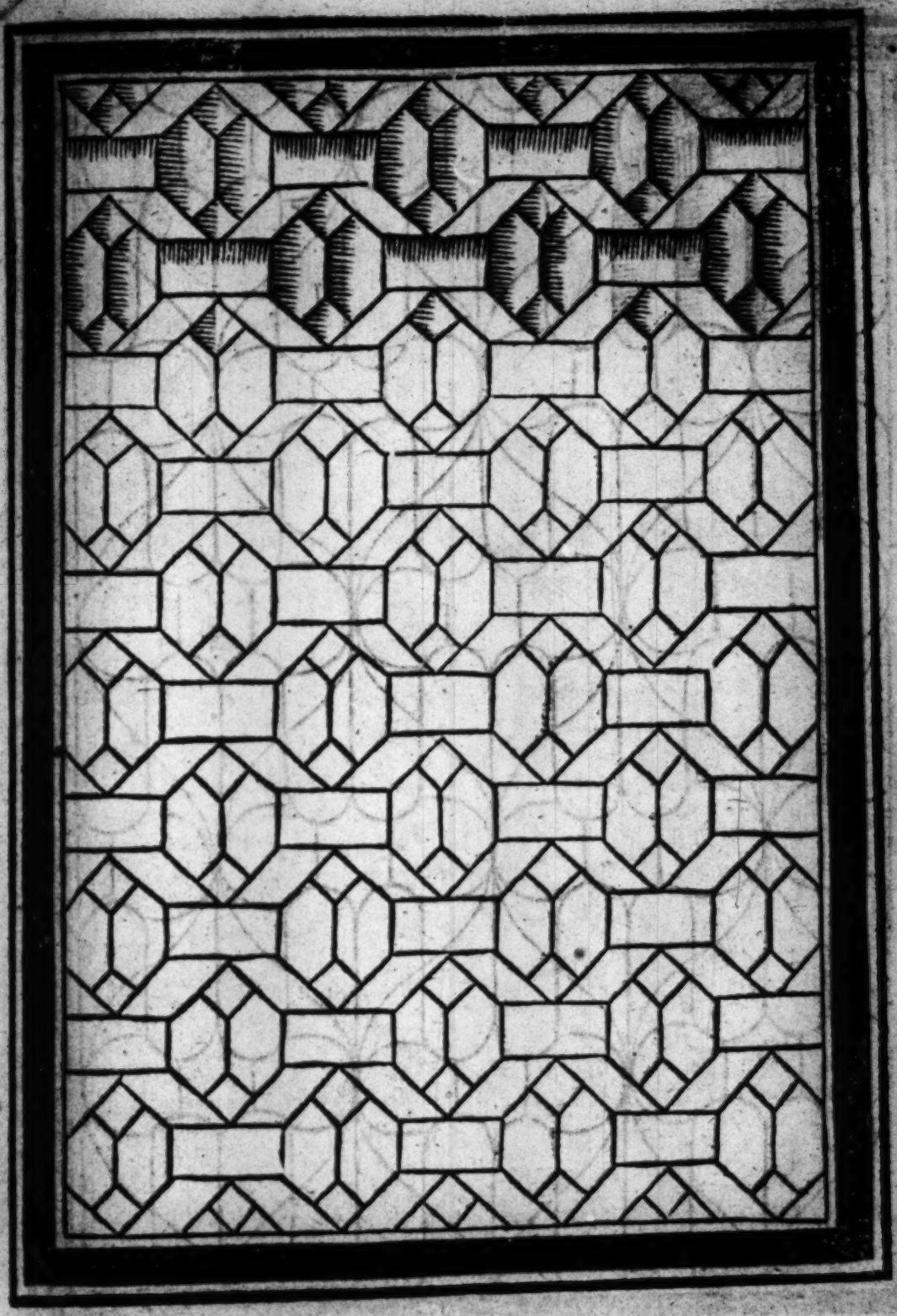
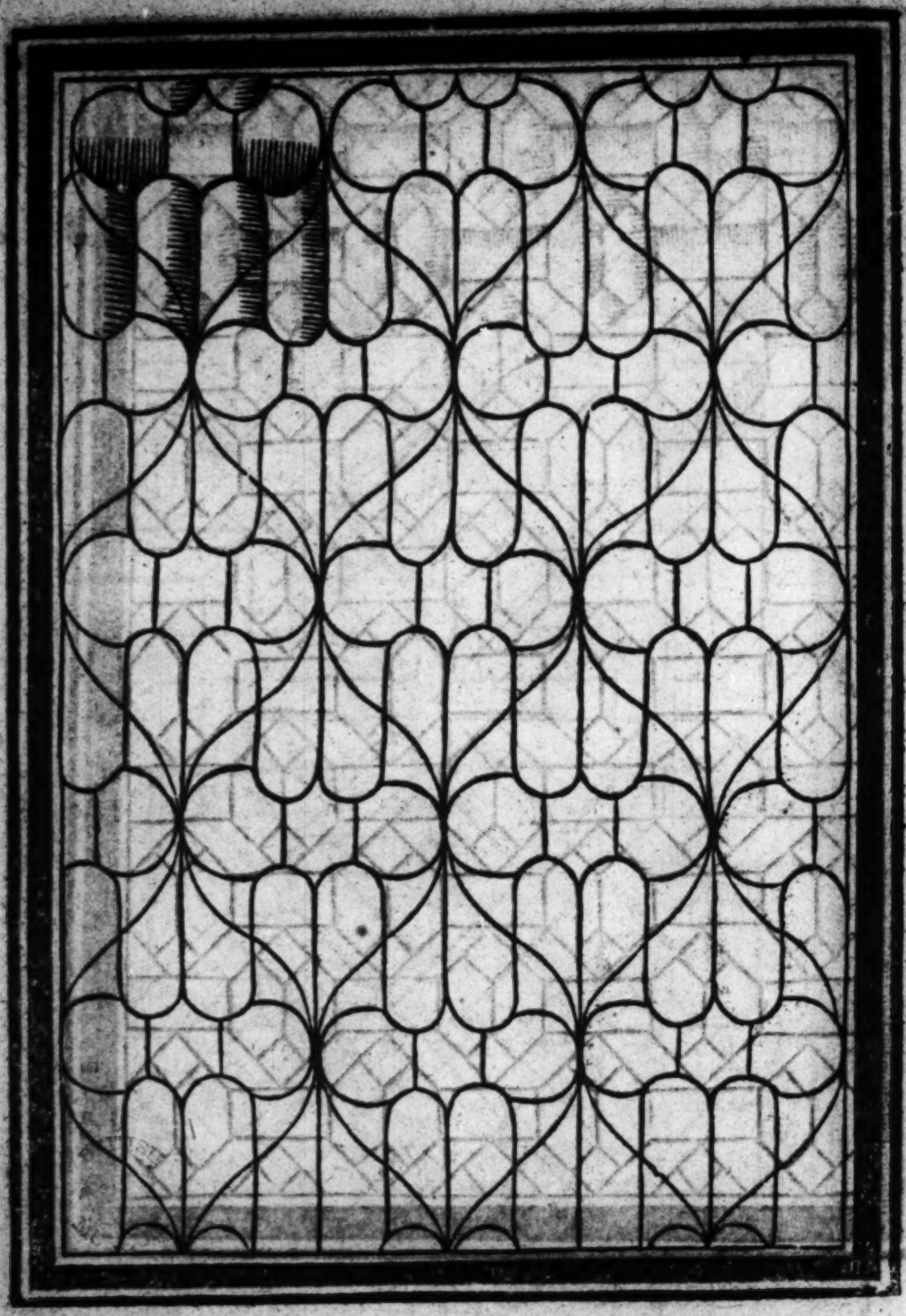
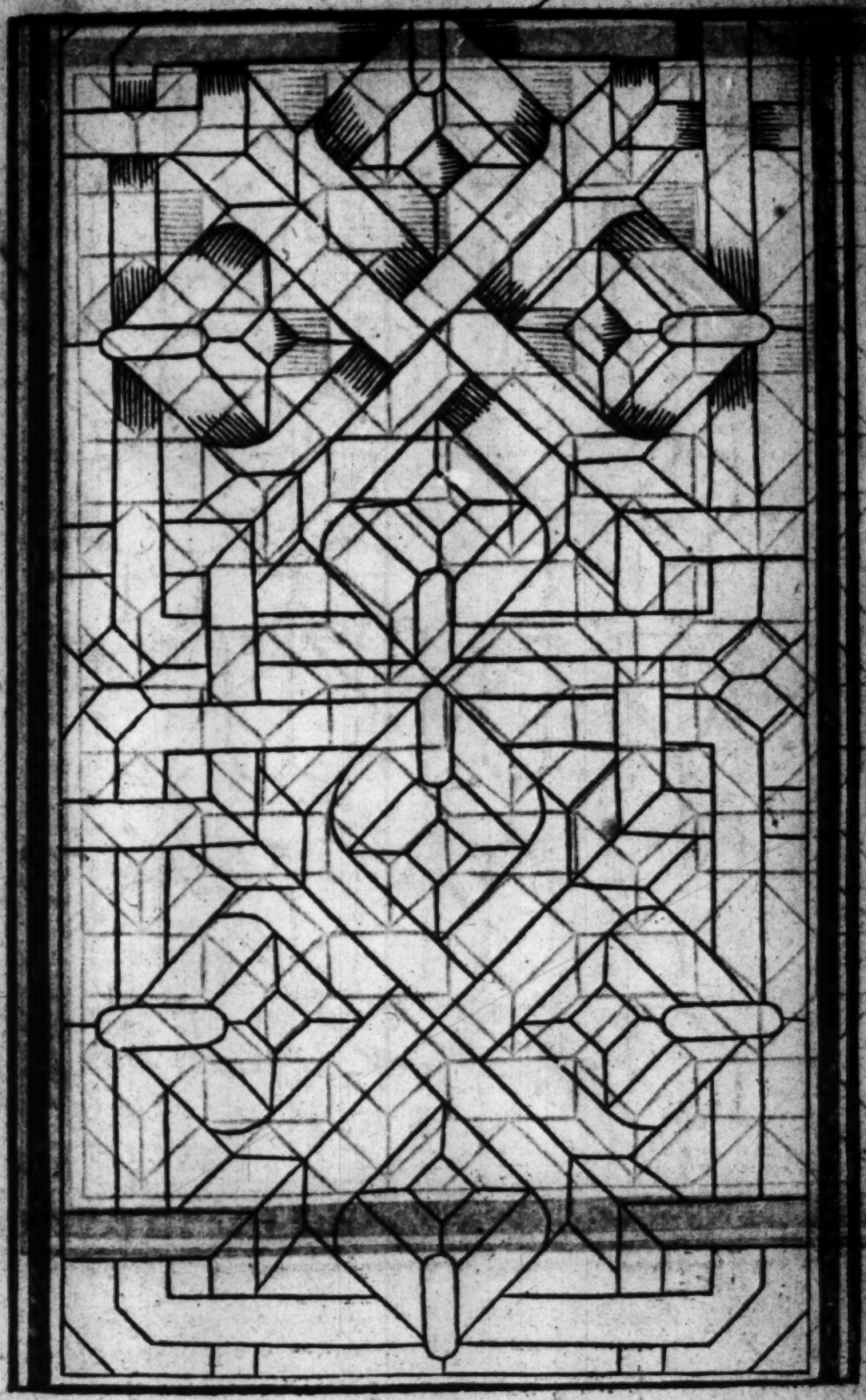


Fig.









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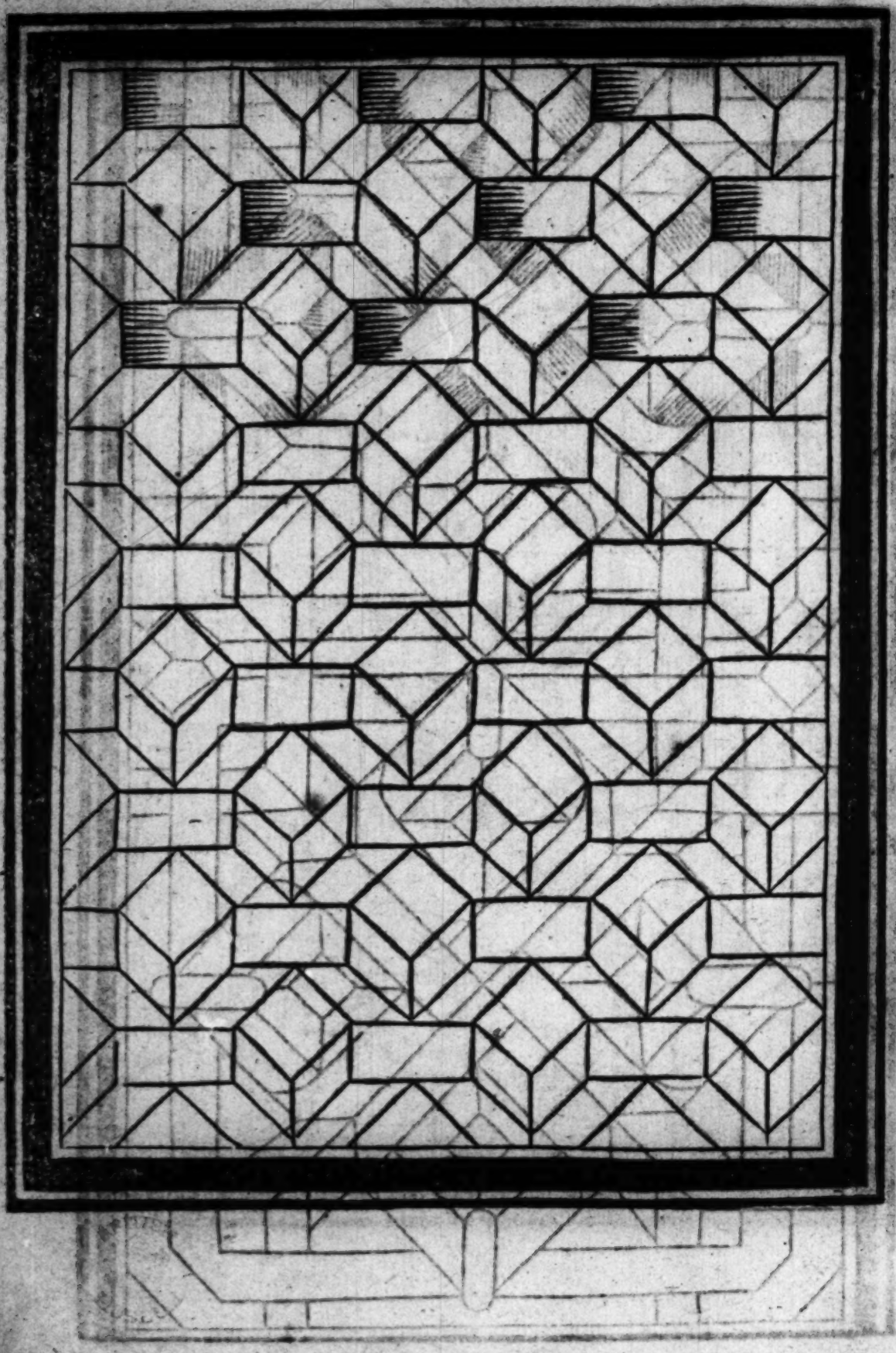

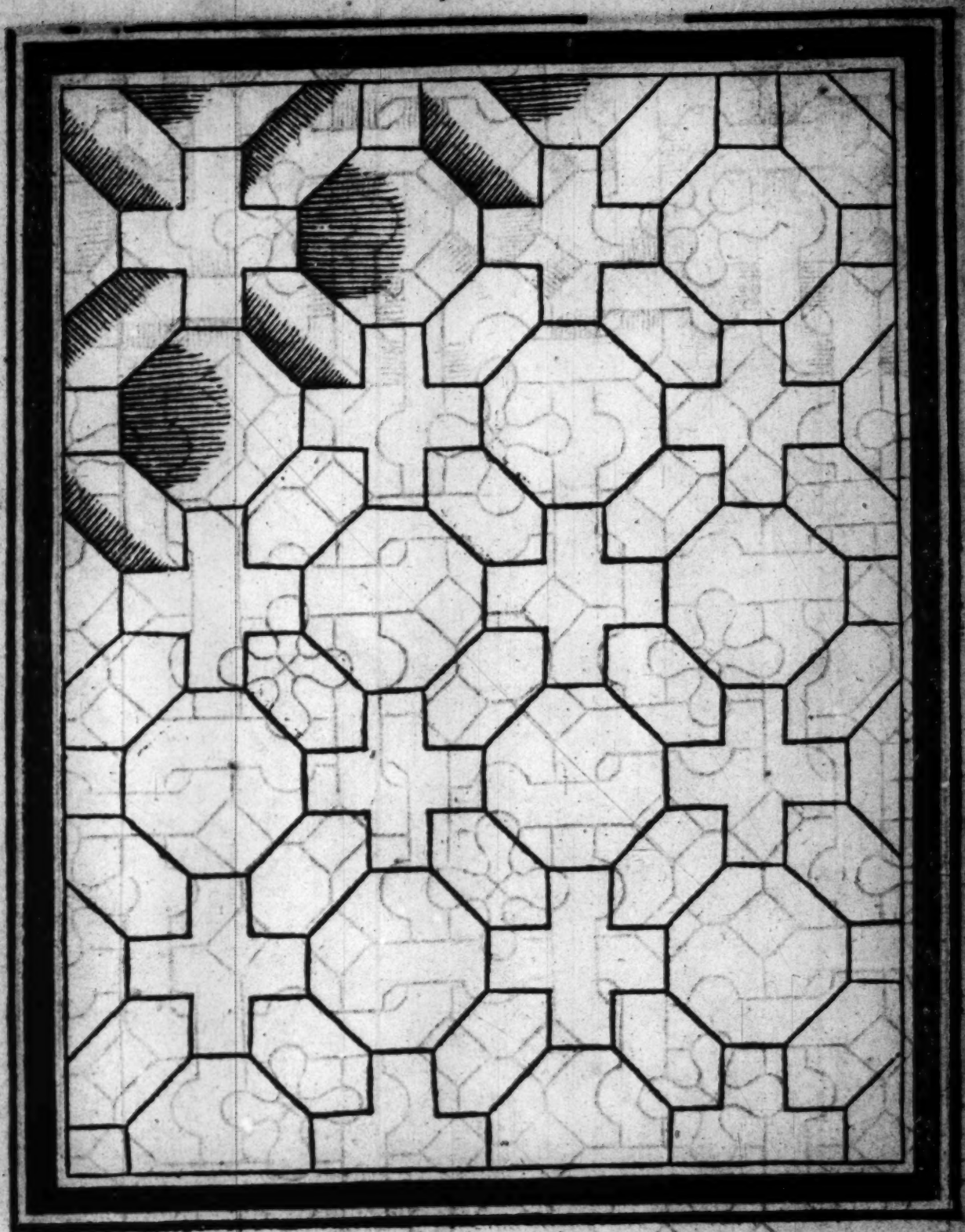

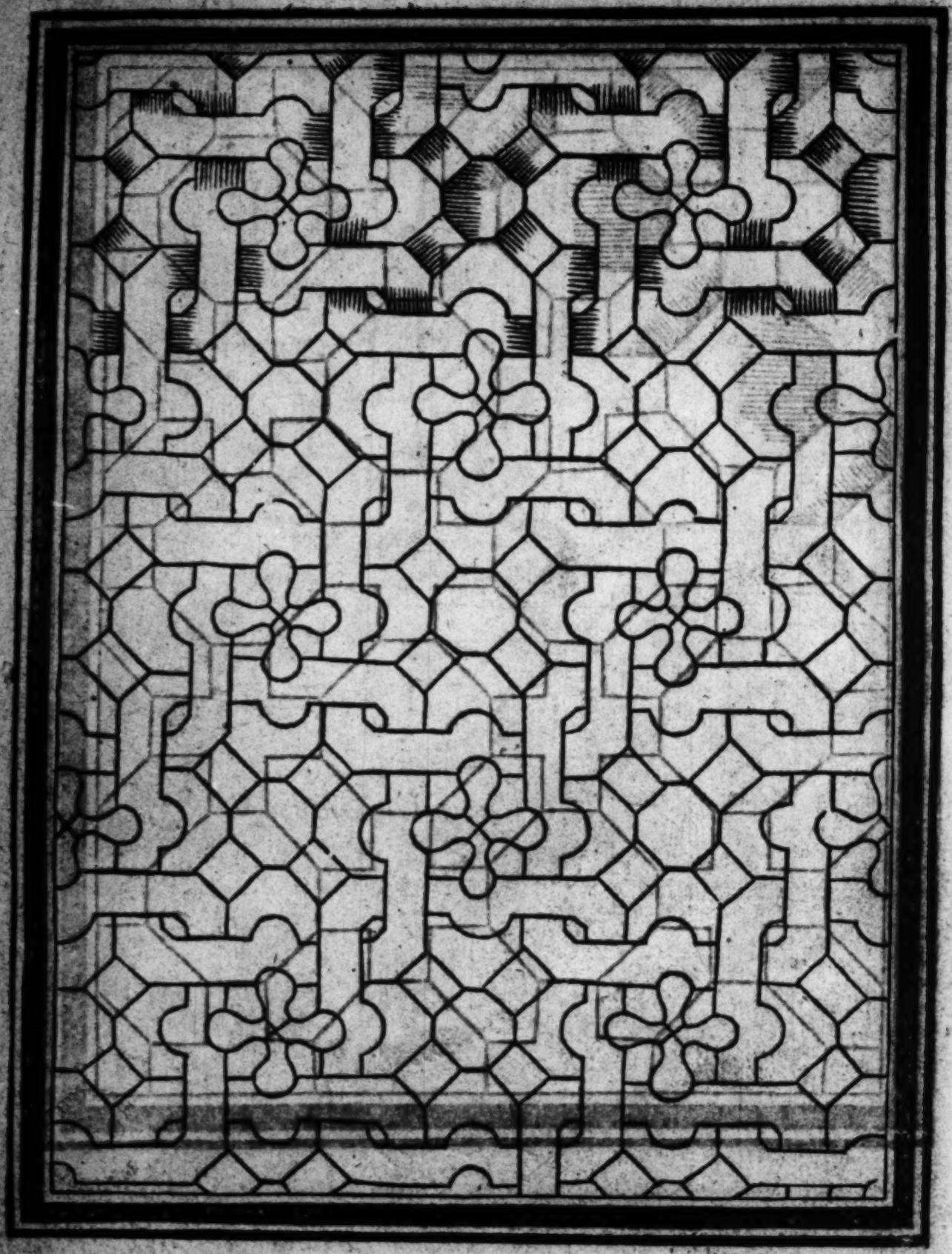

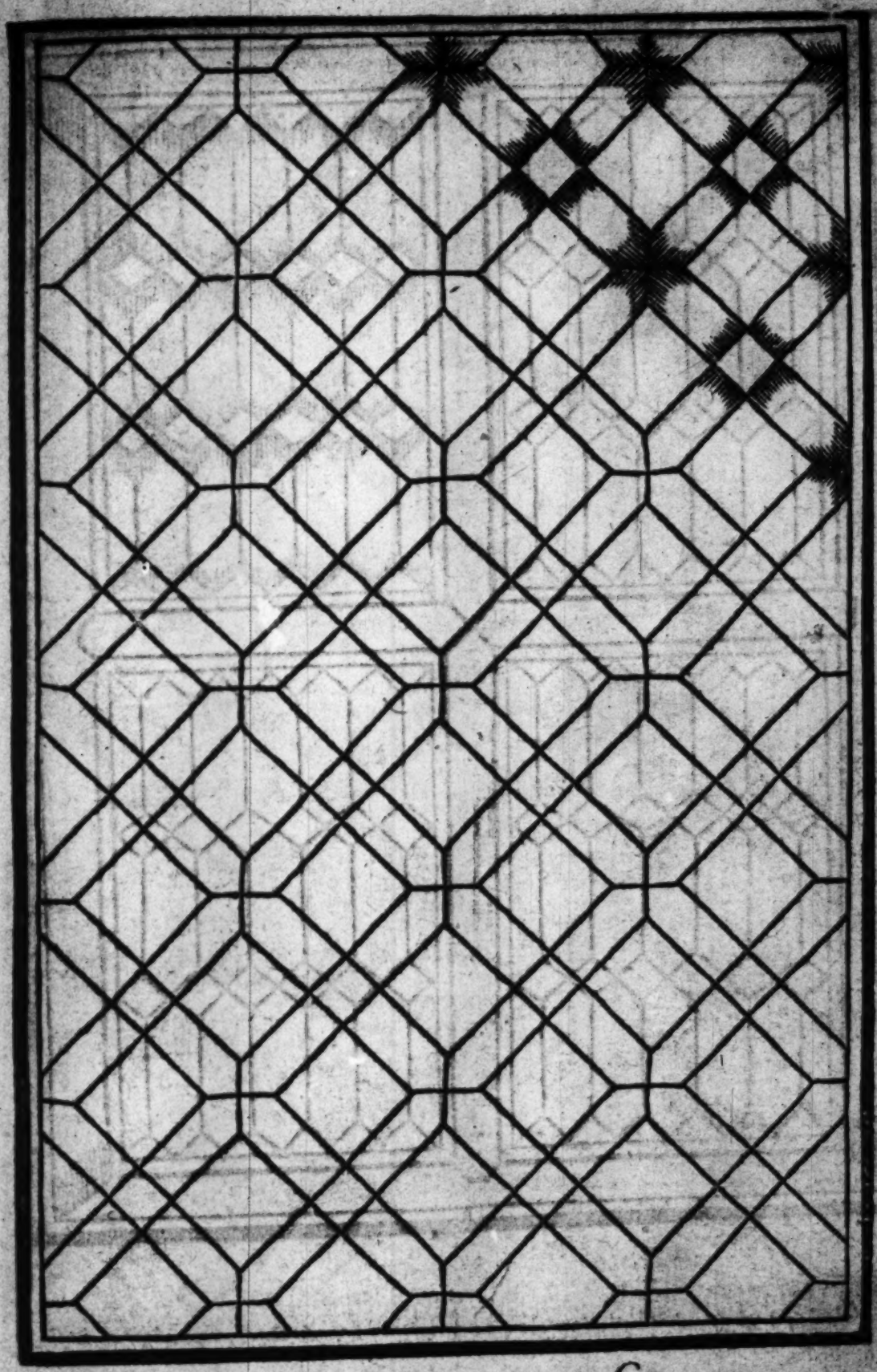

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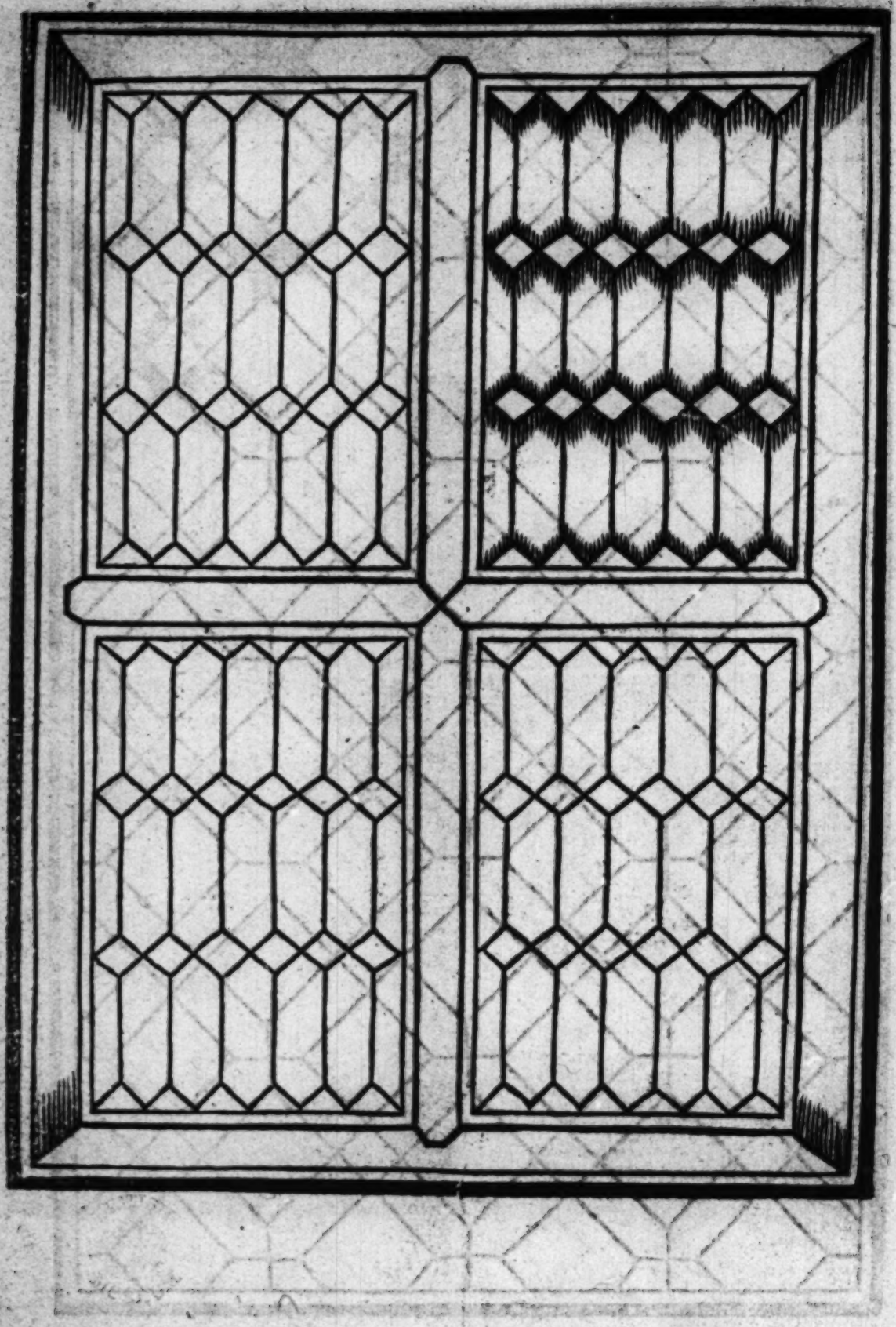

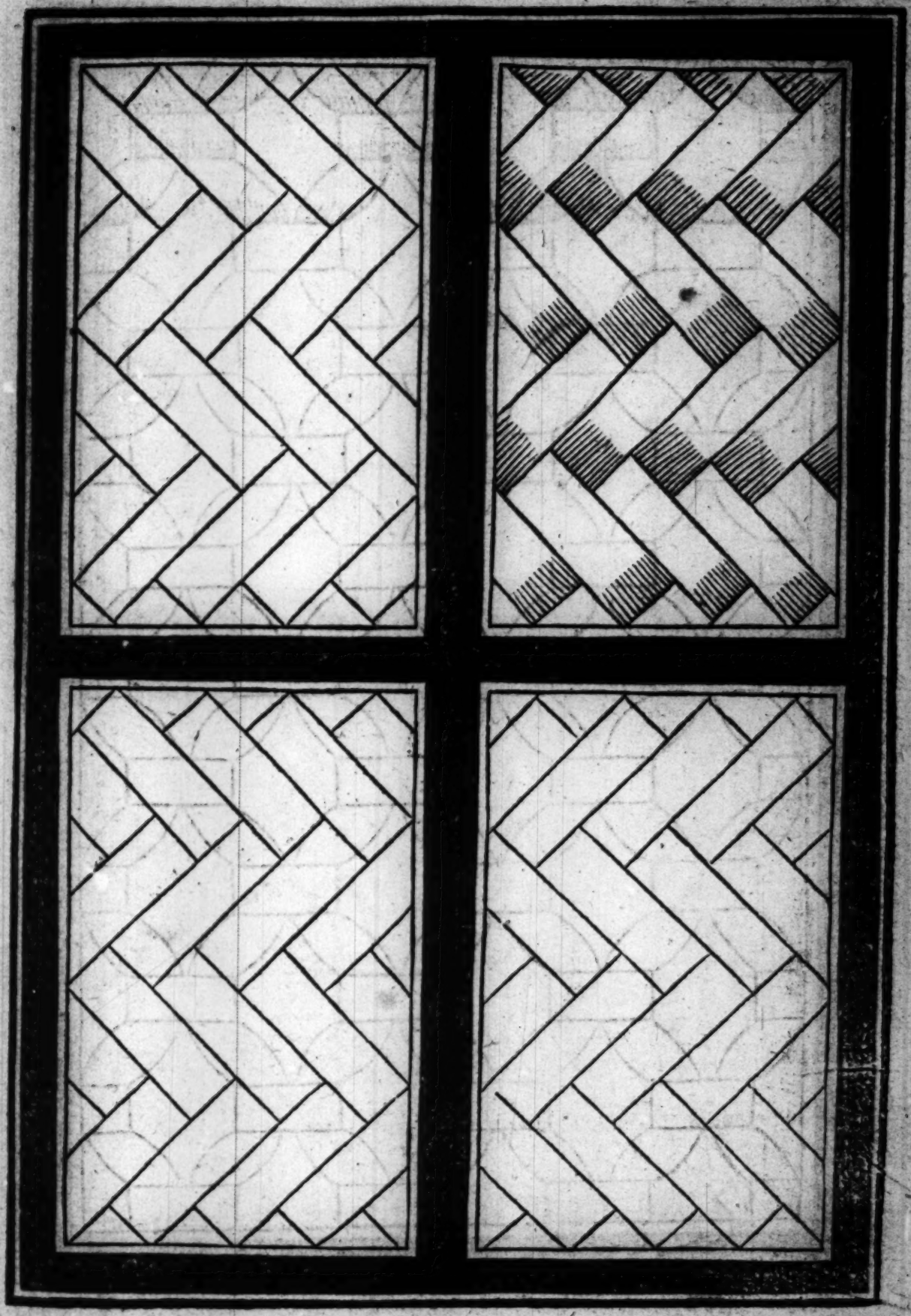

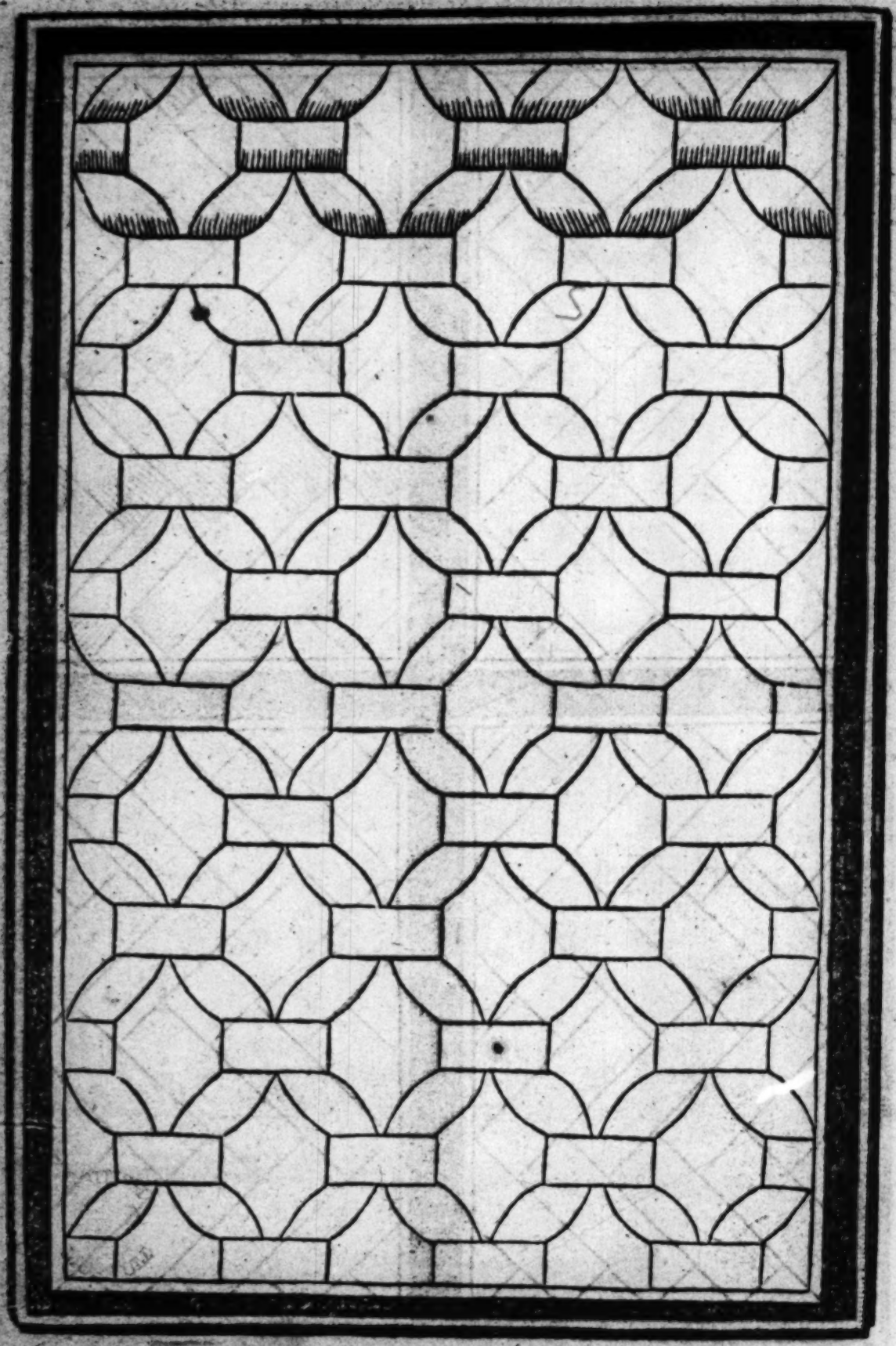

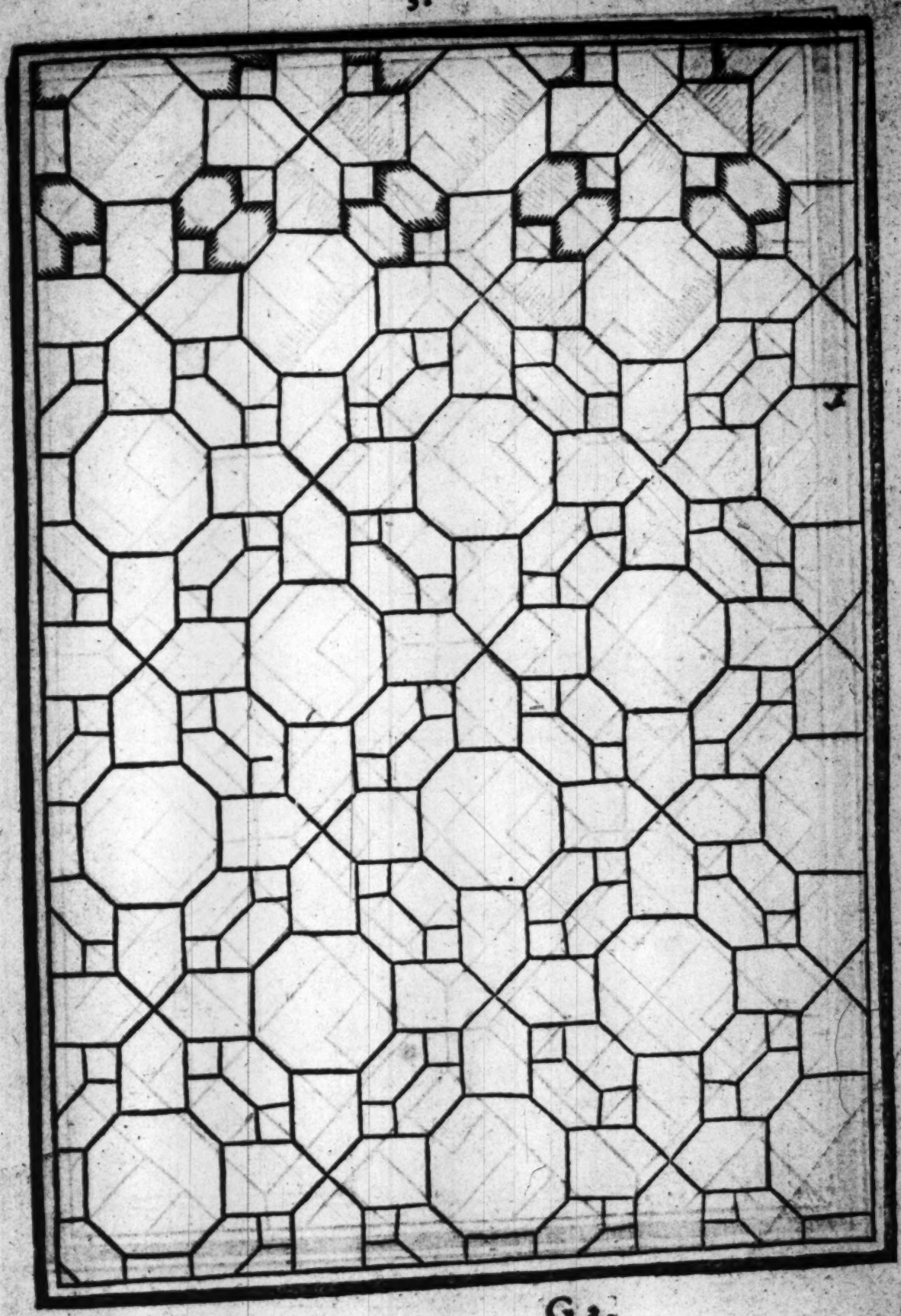

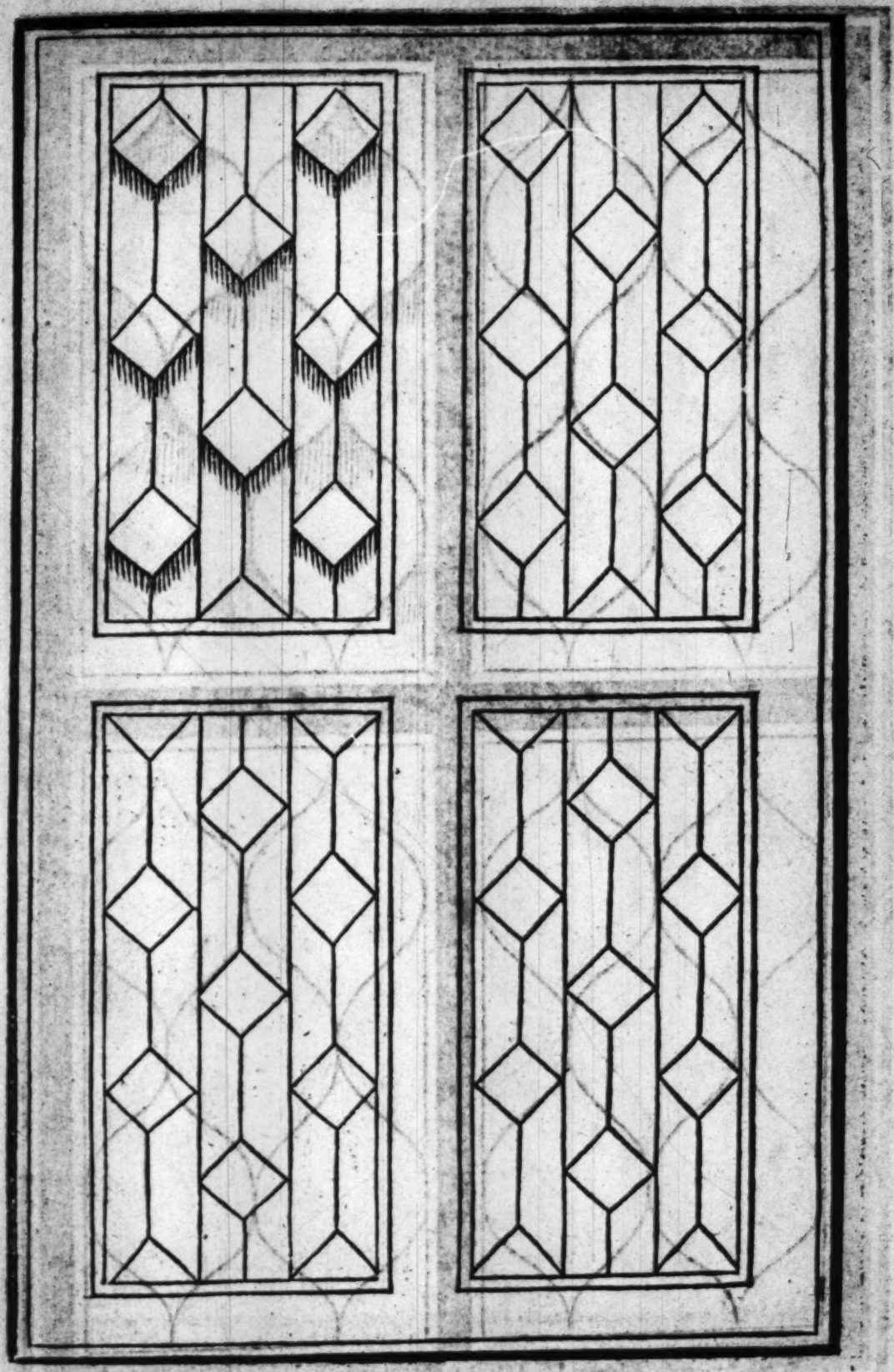

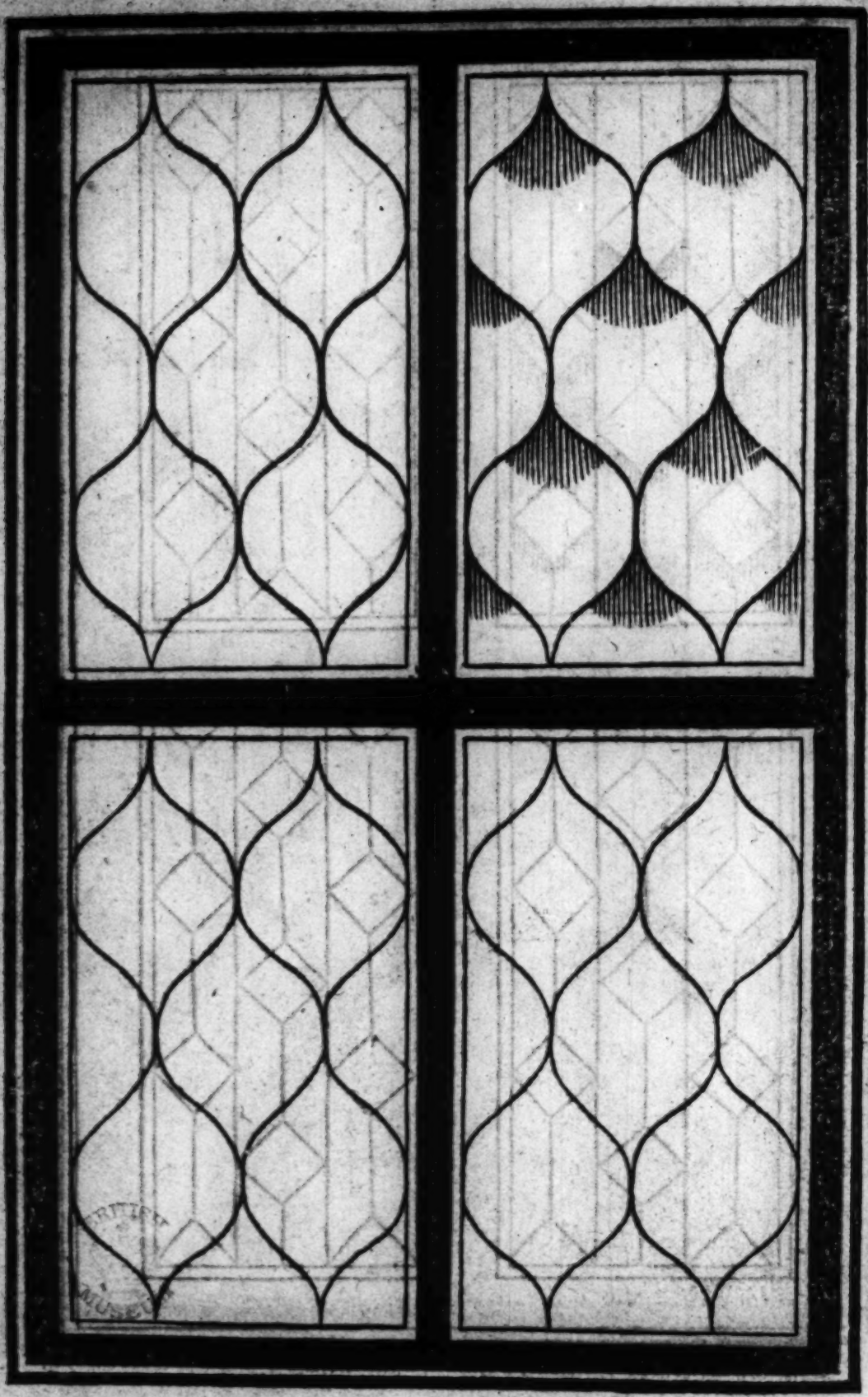

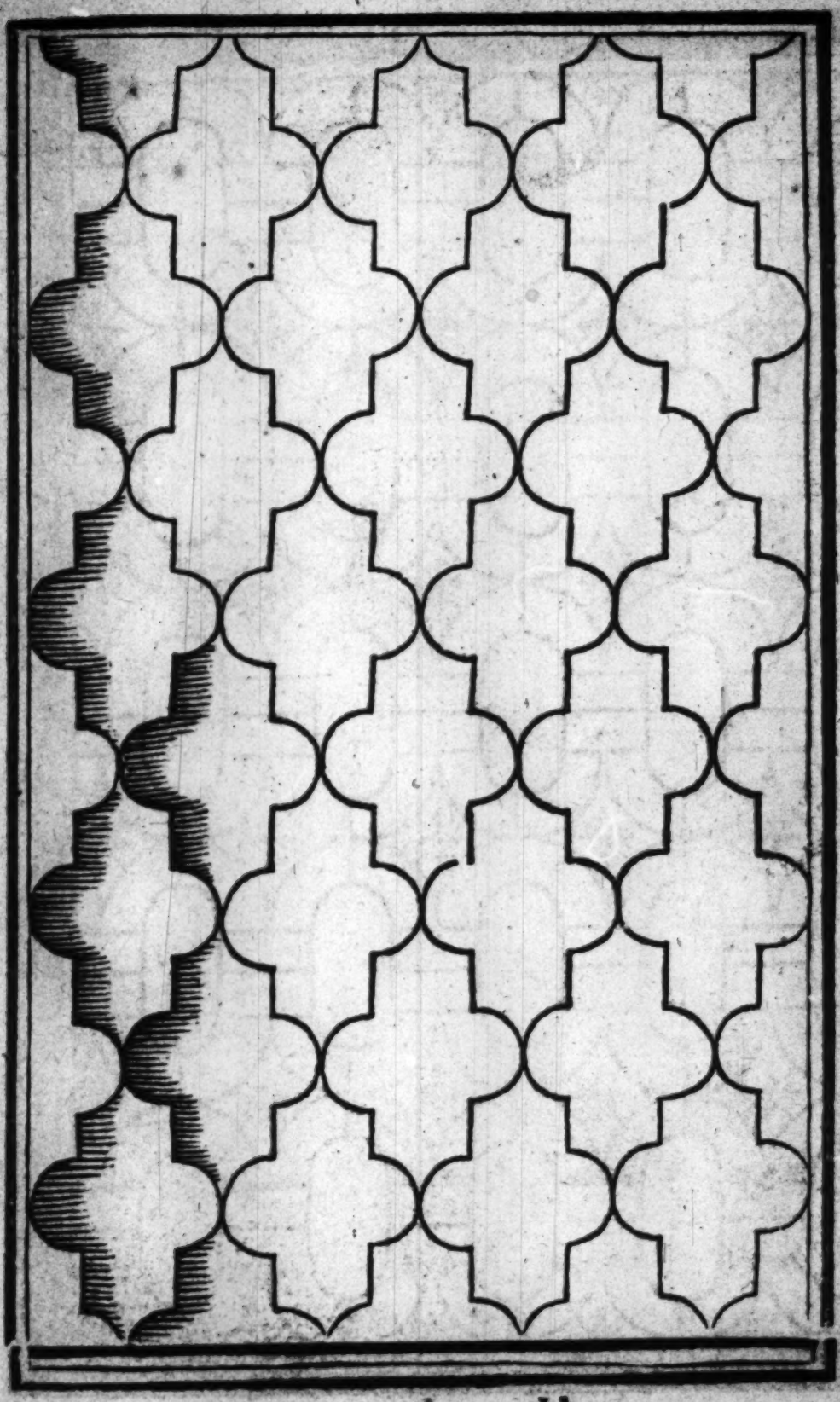

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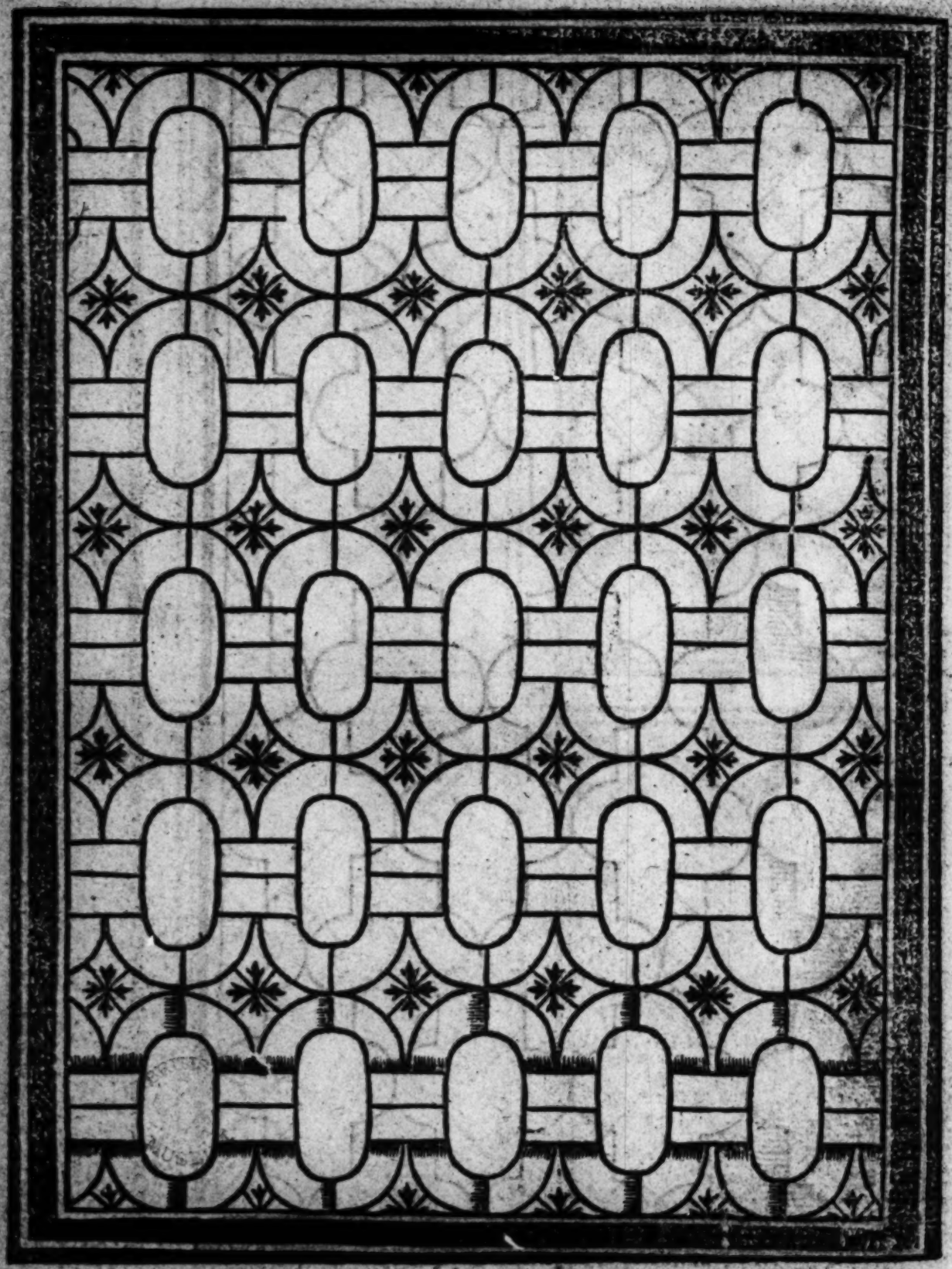

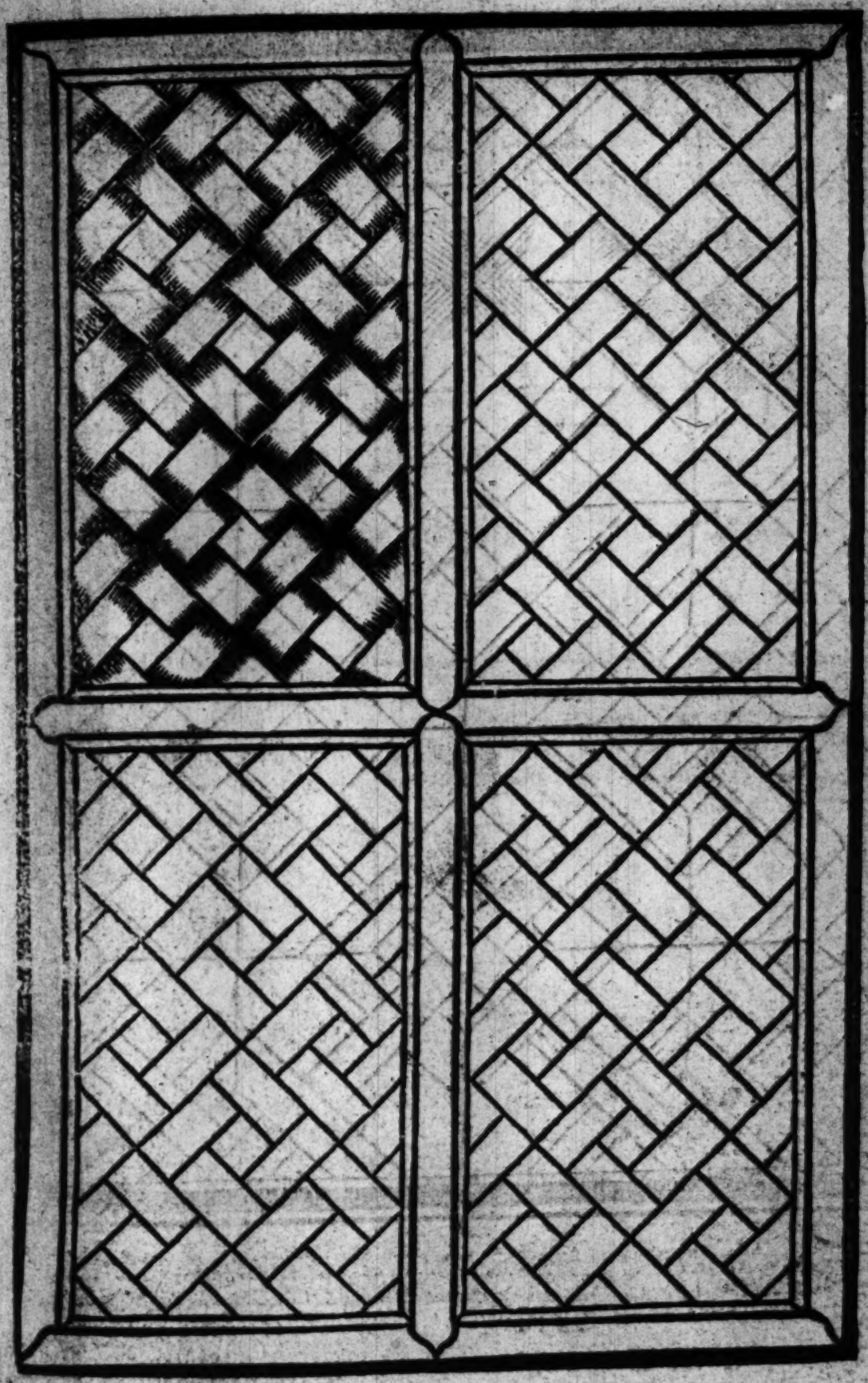

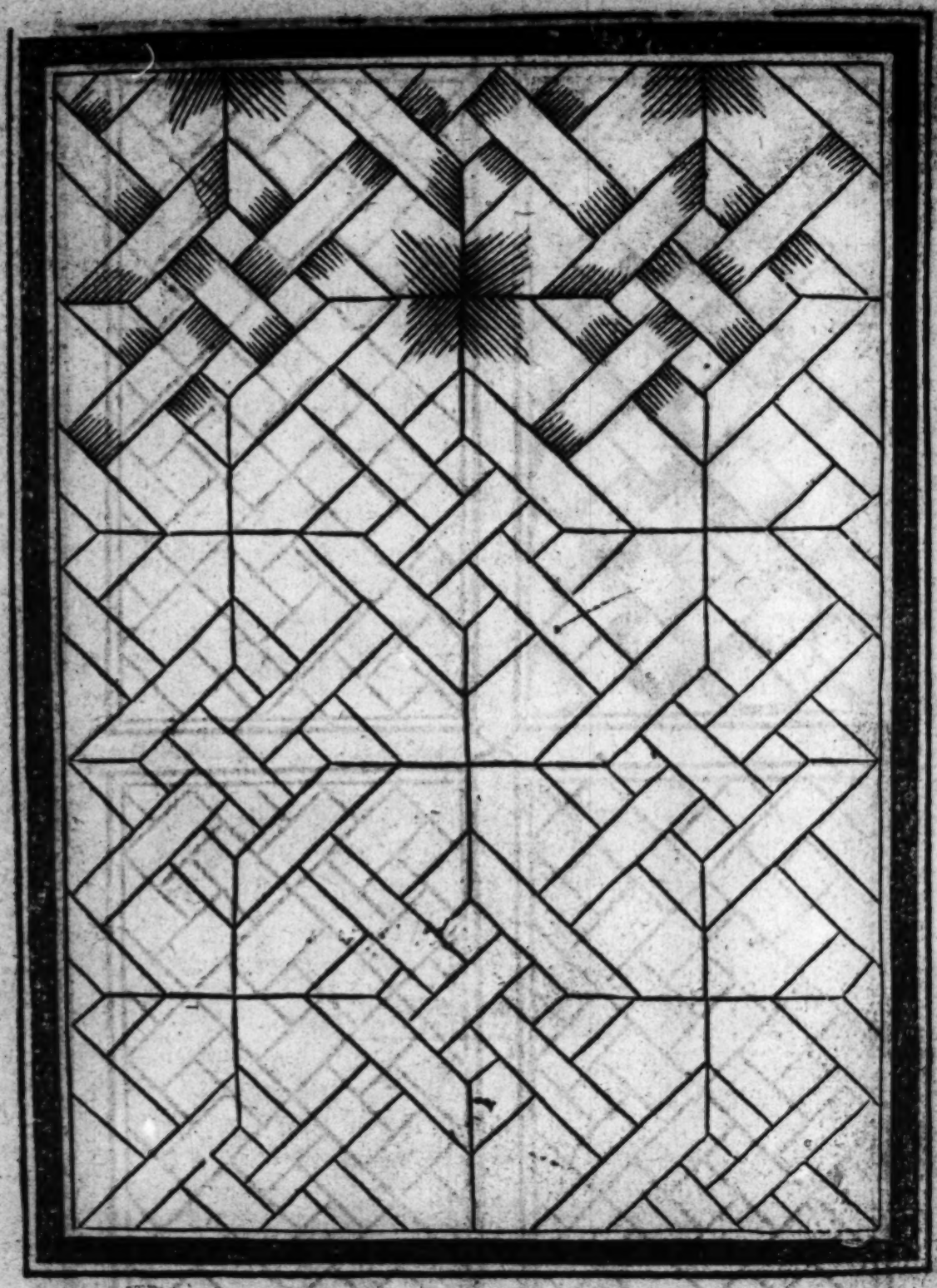

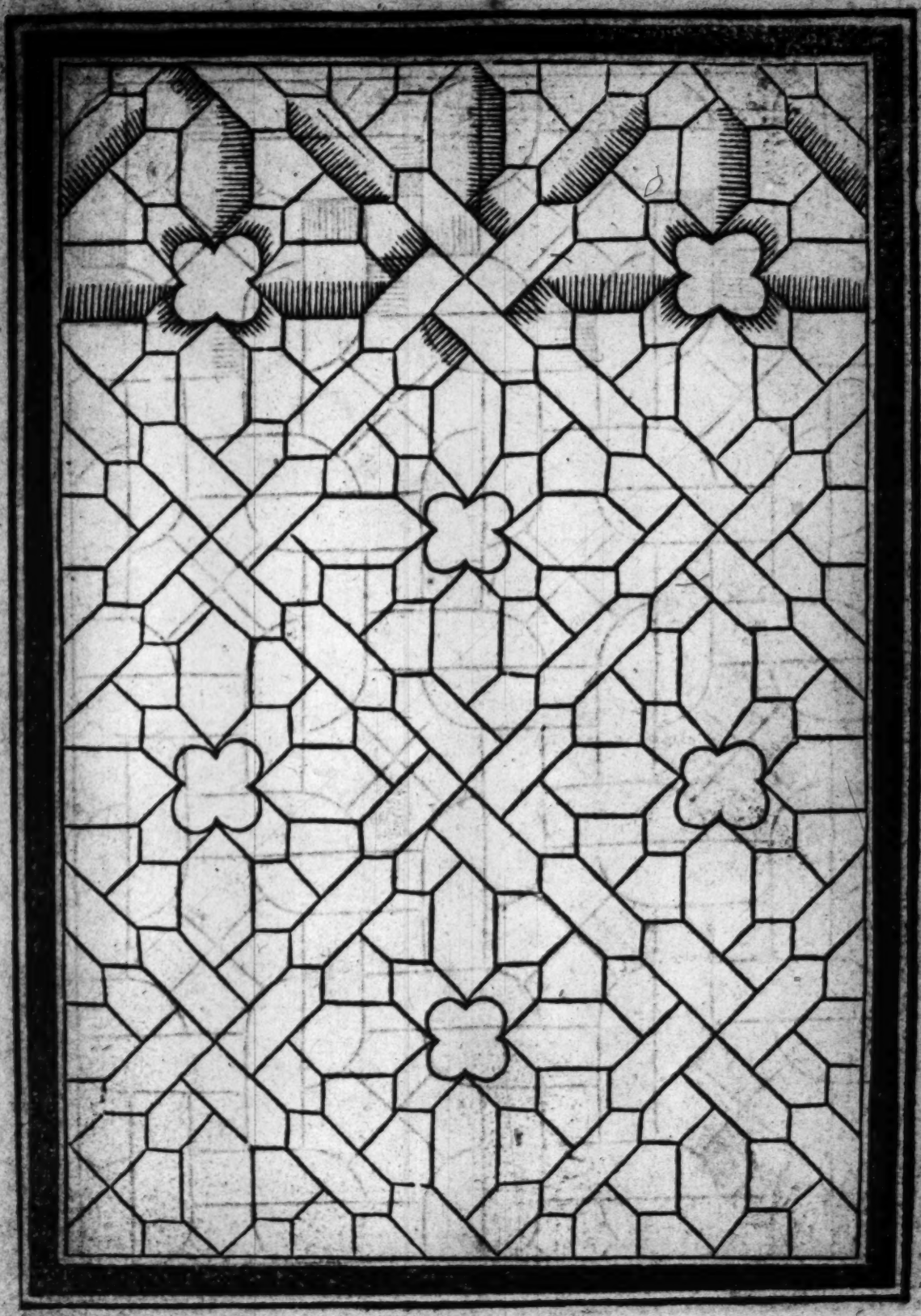

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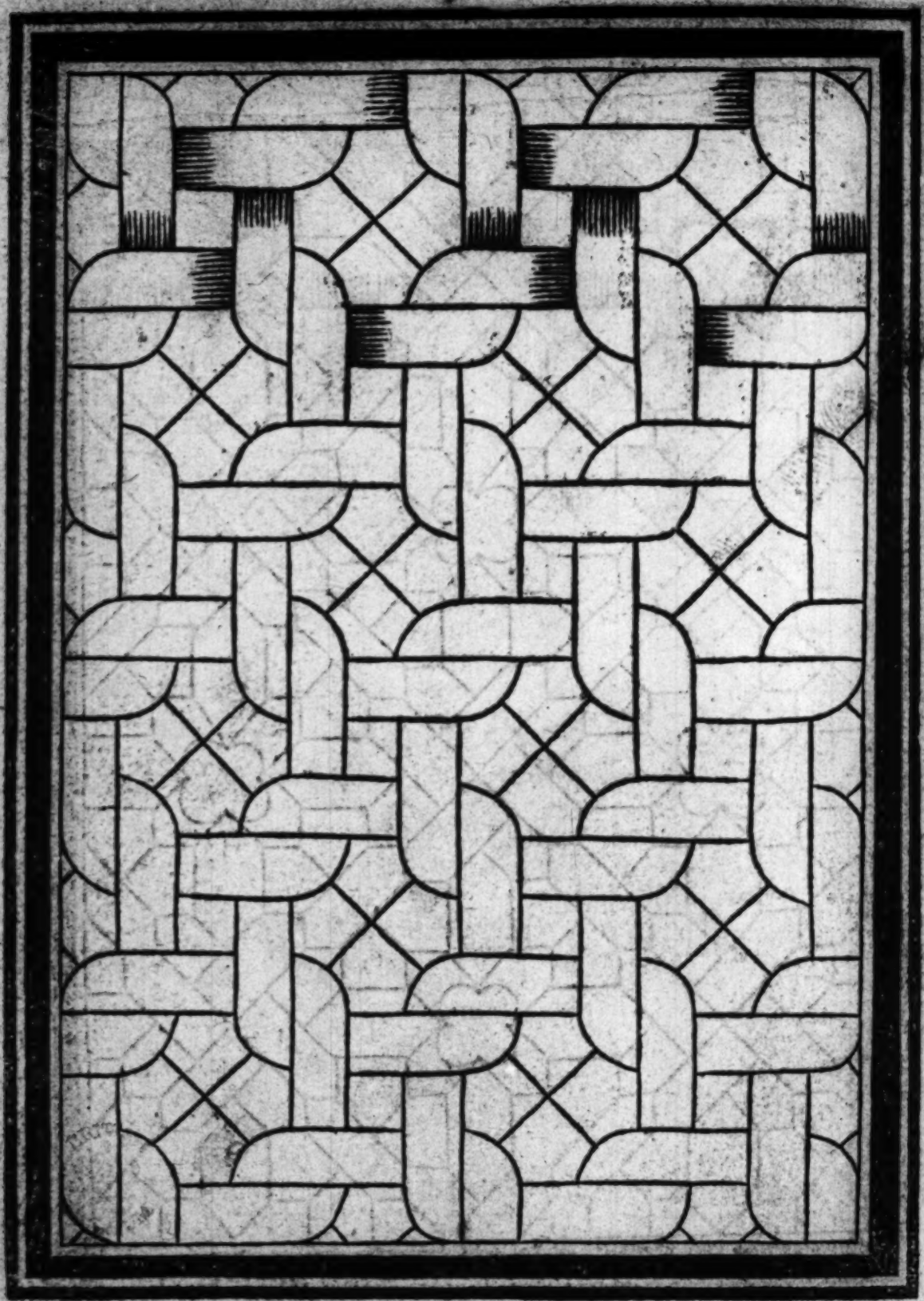

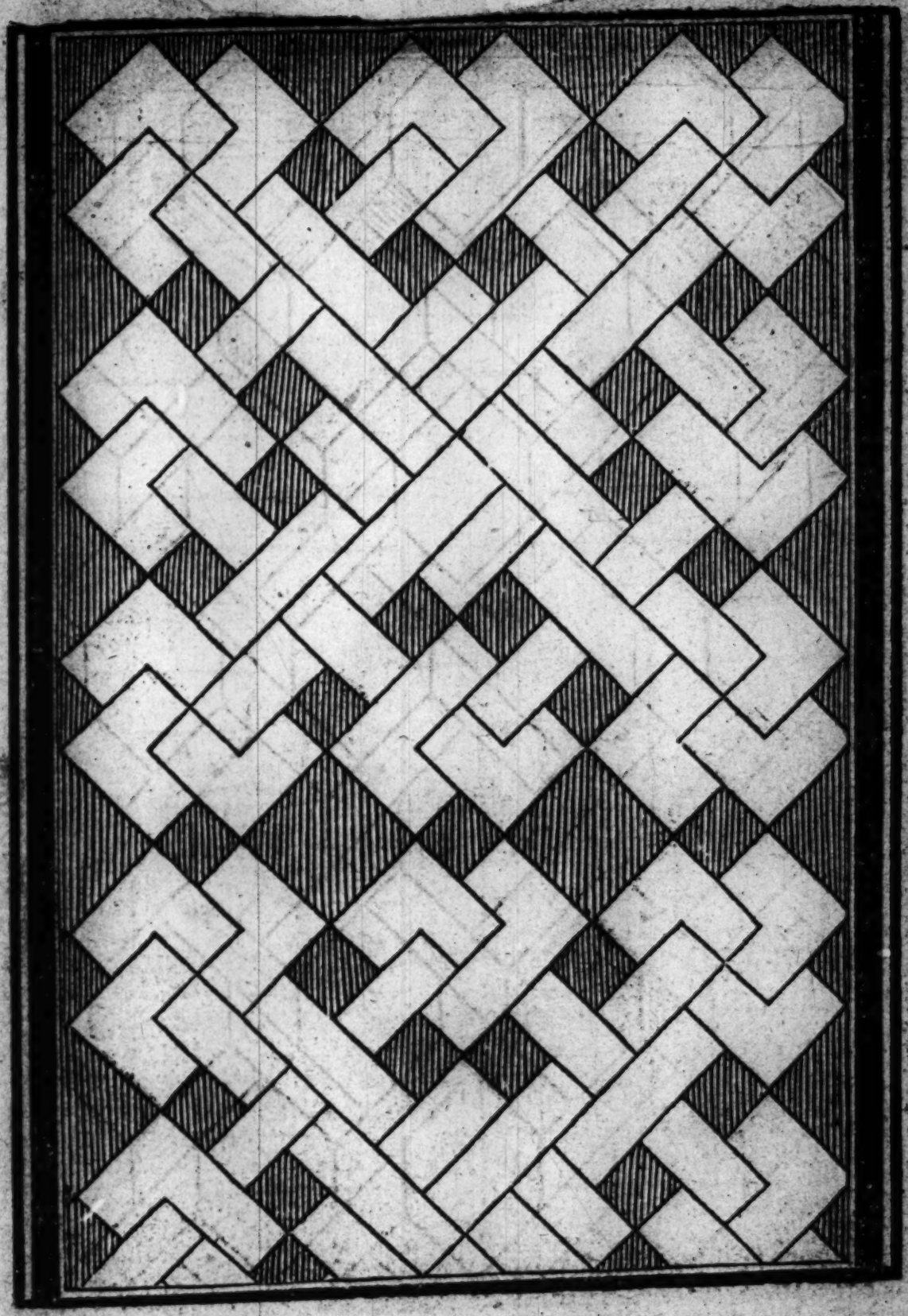

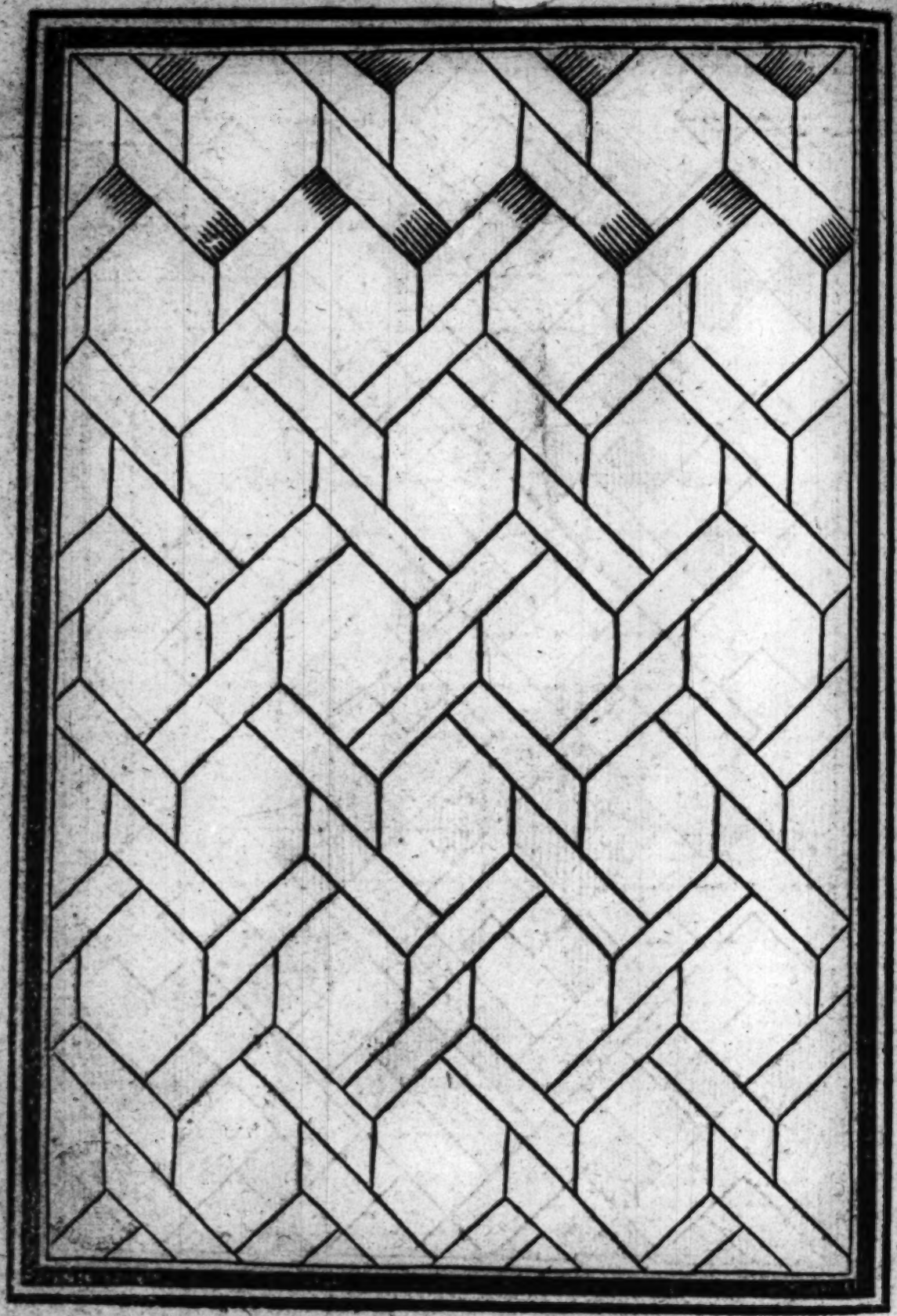

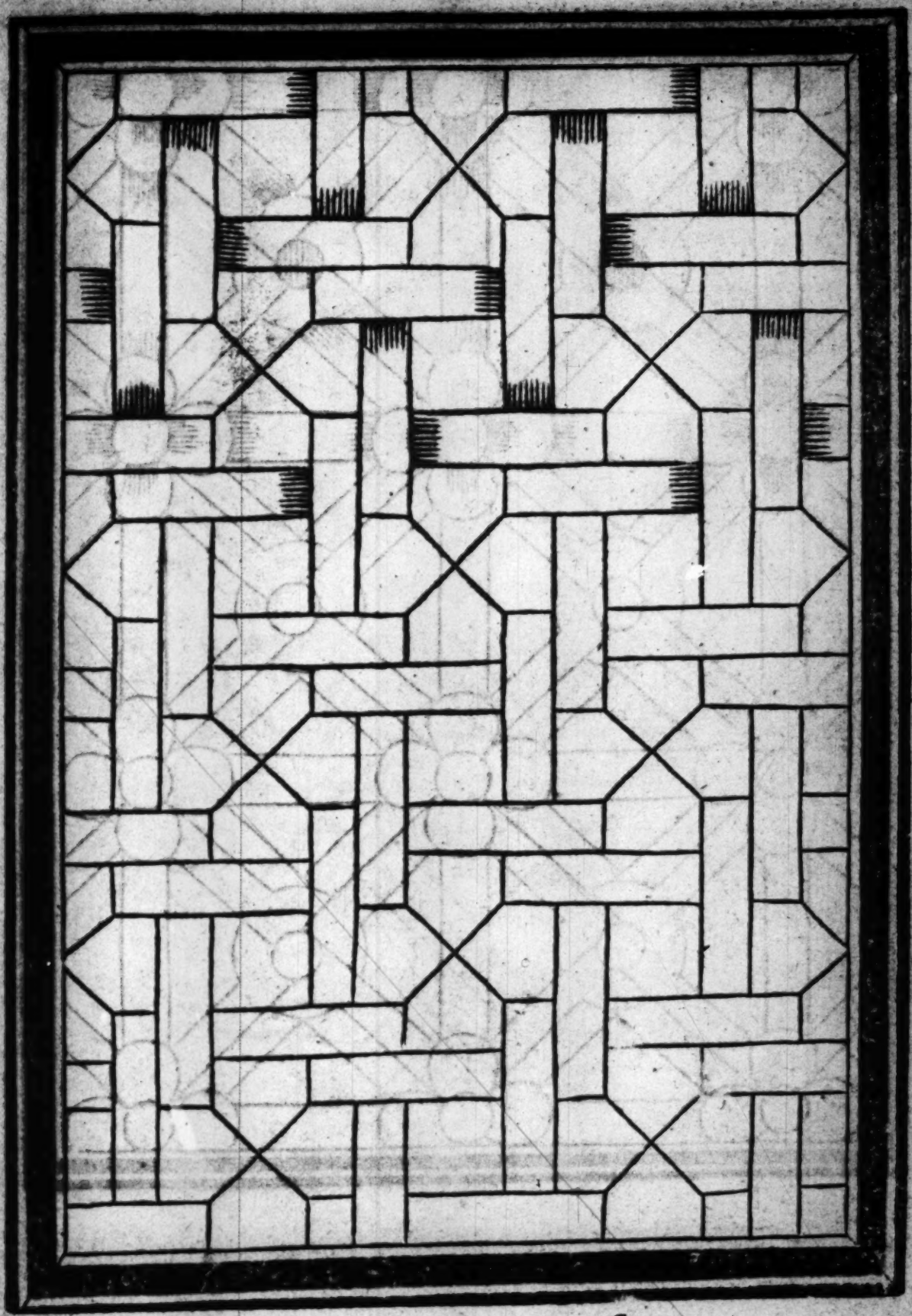

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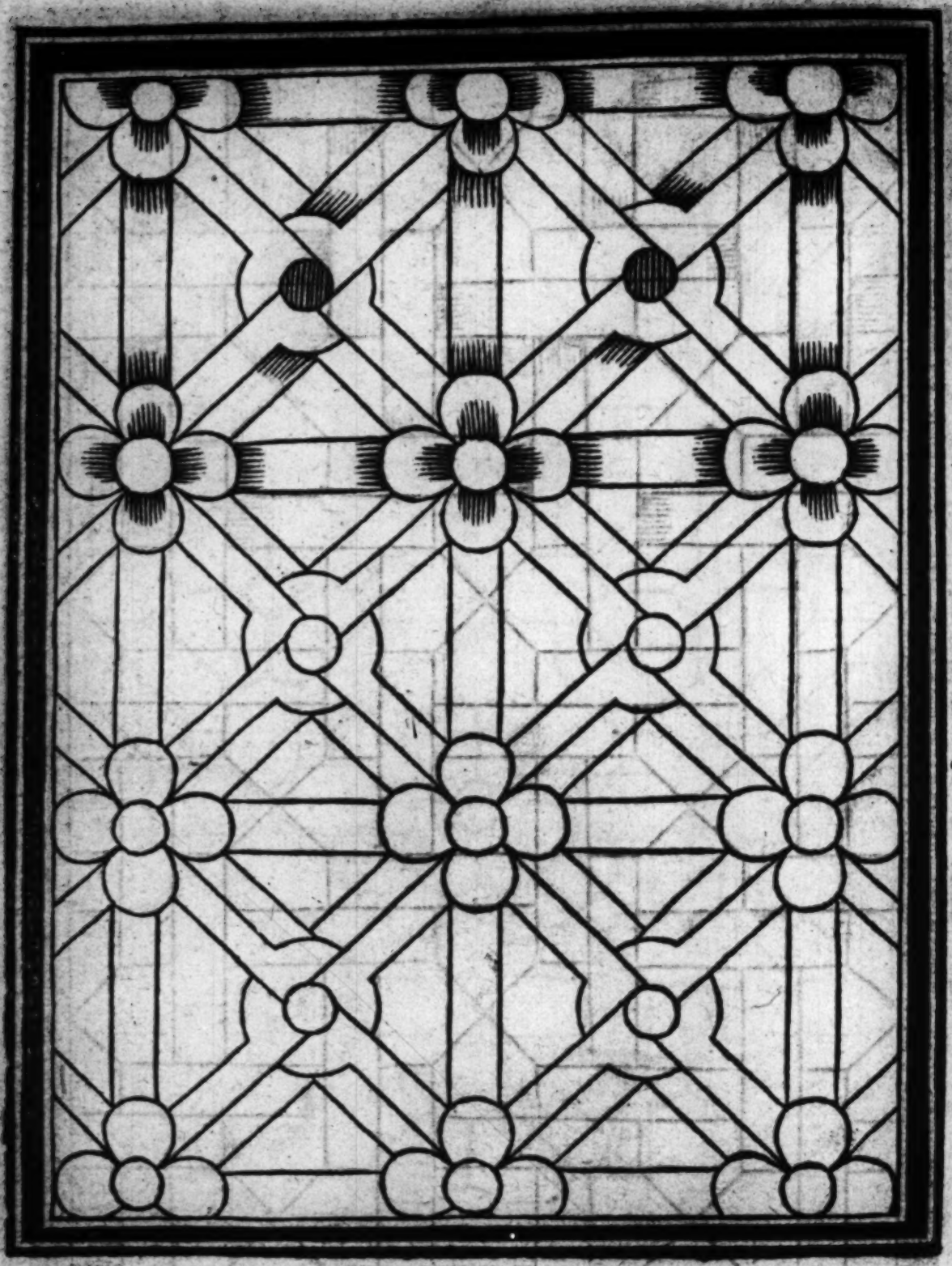

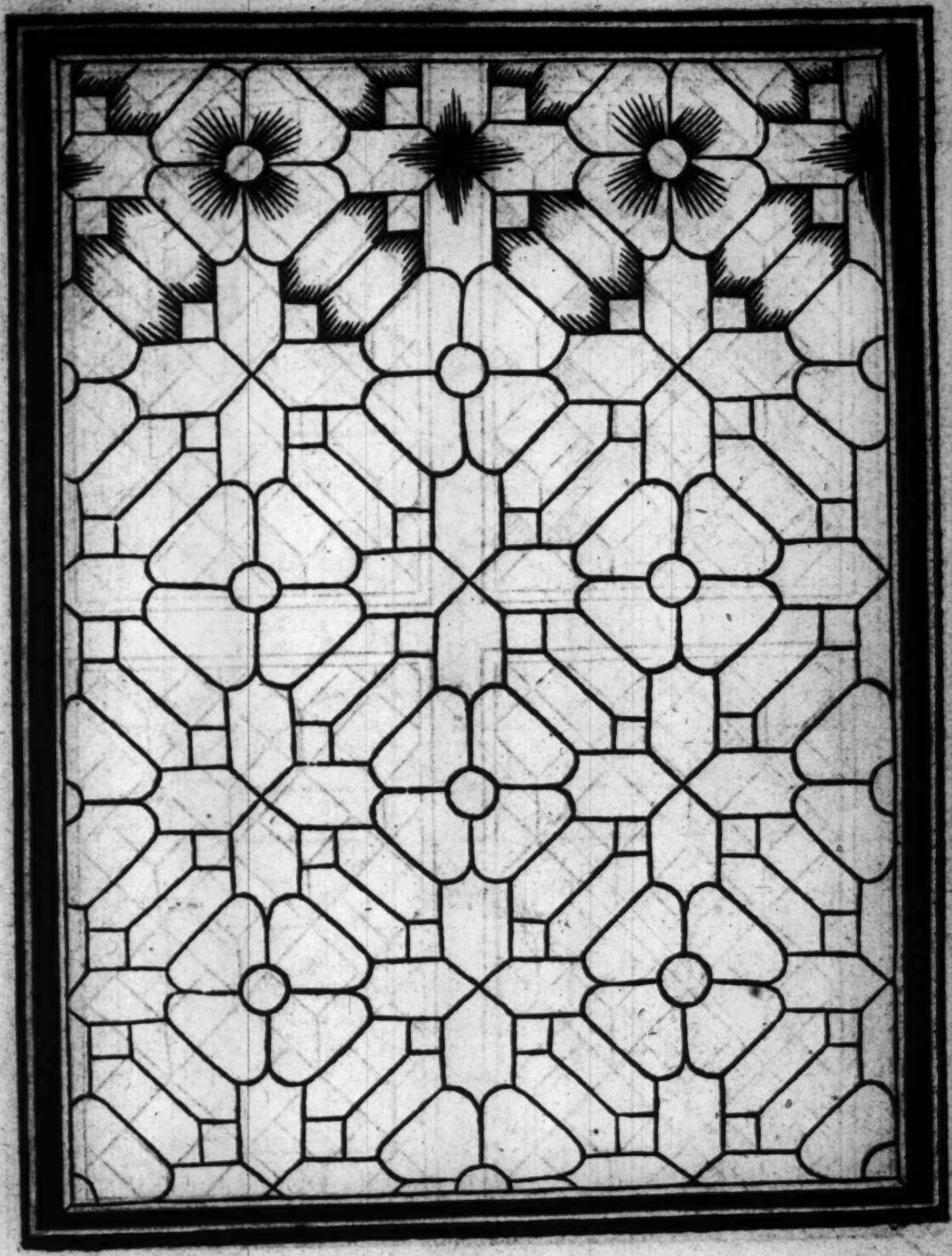

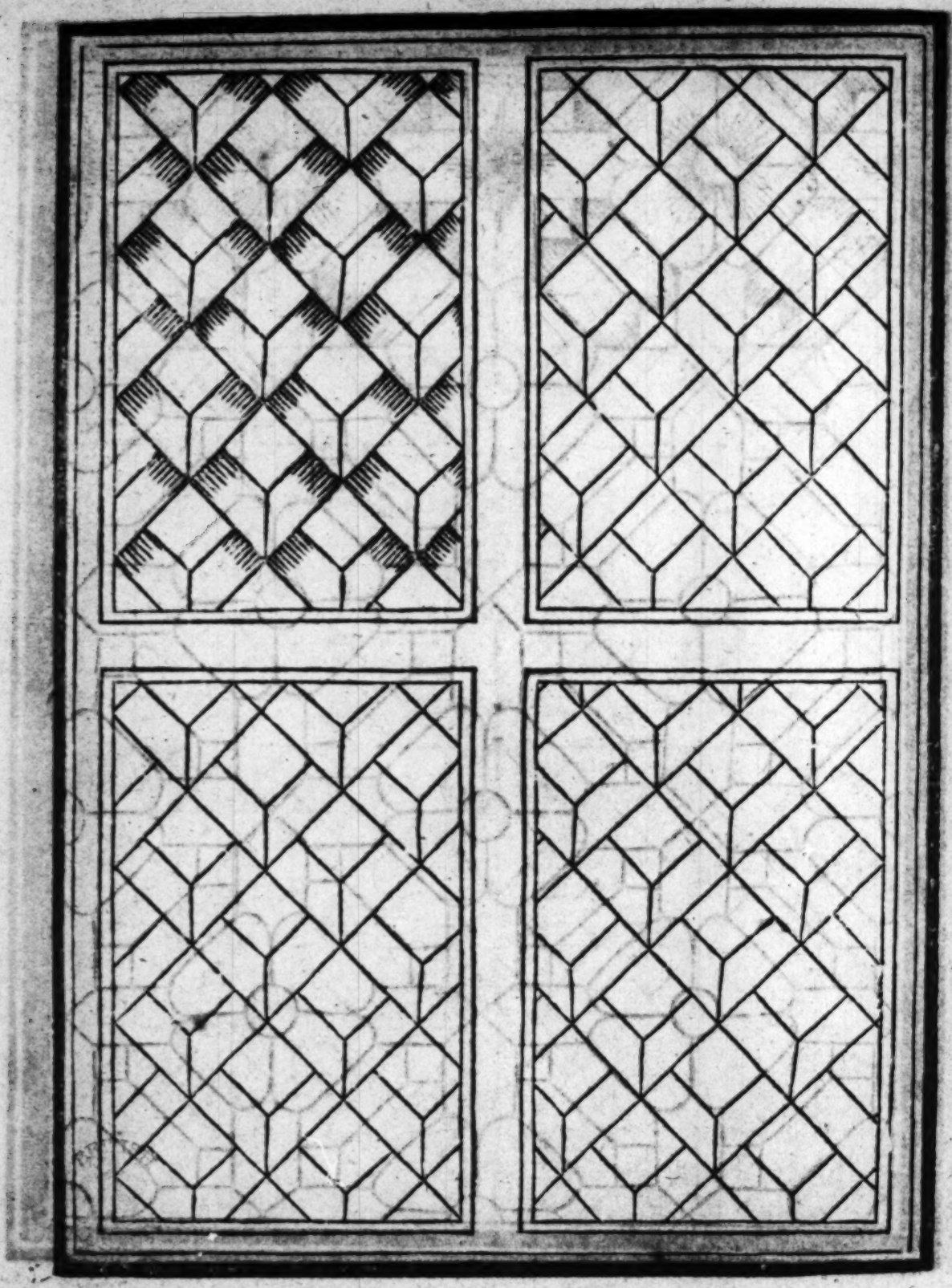

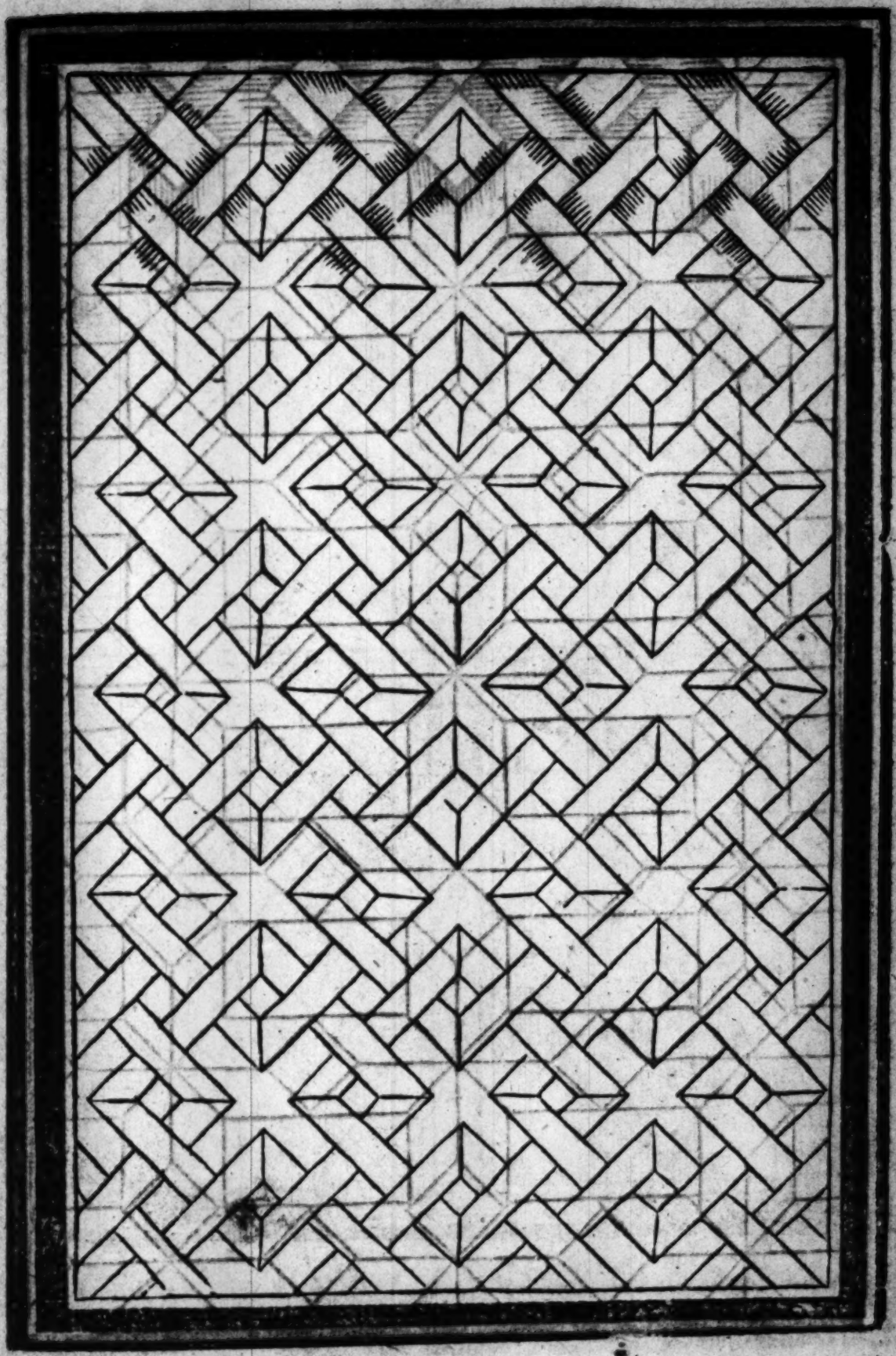

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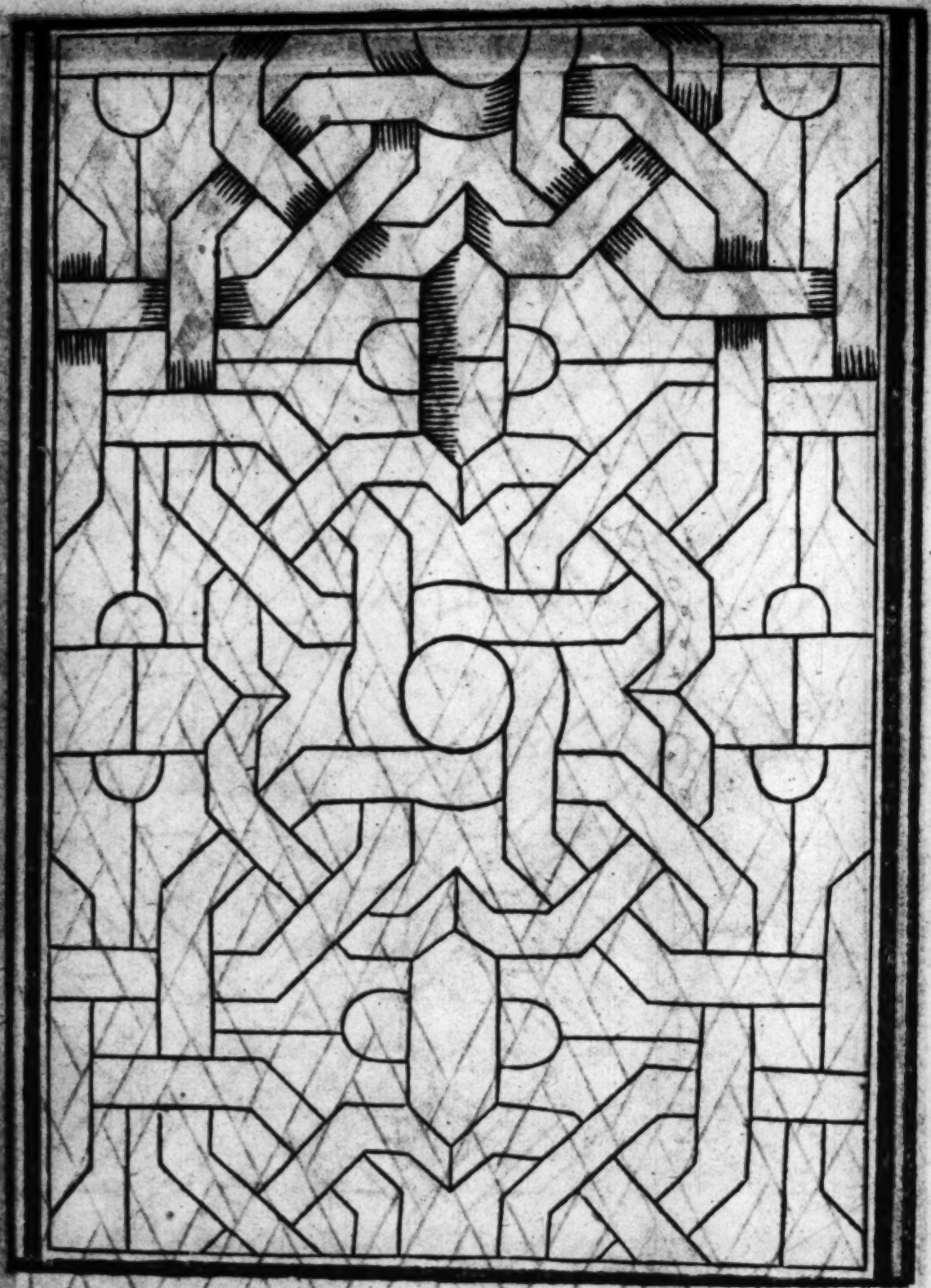

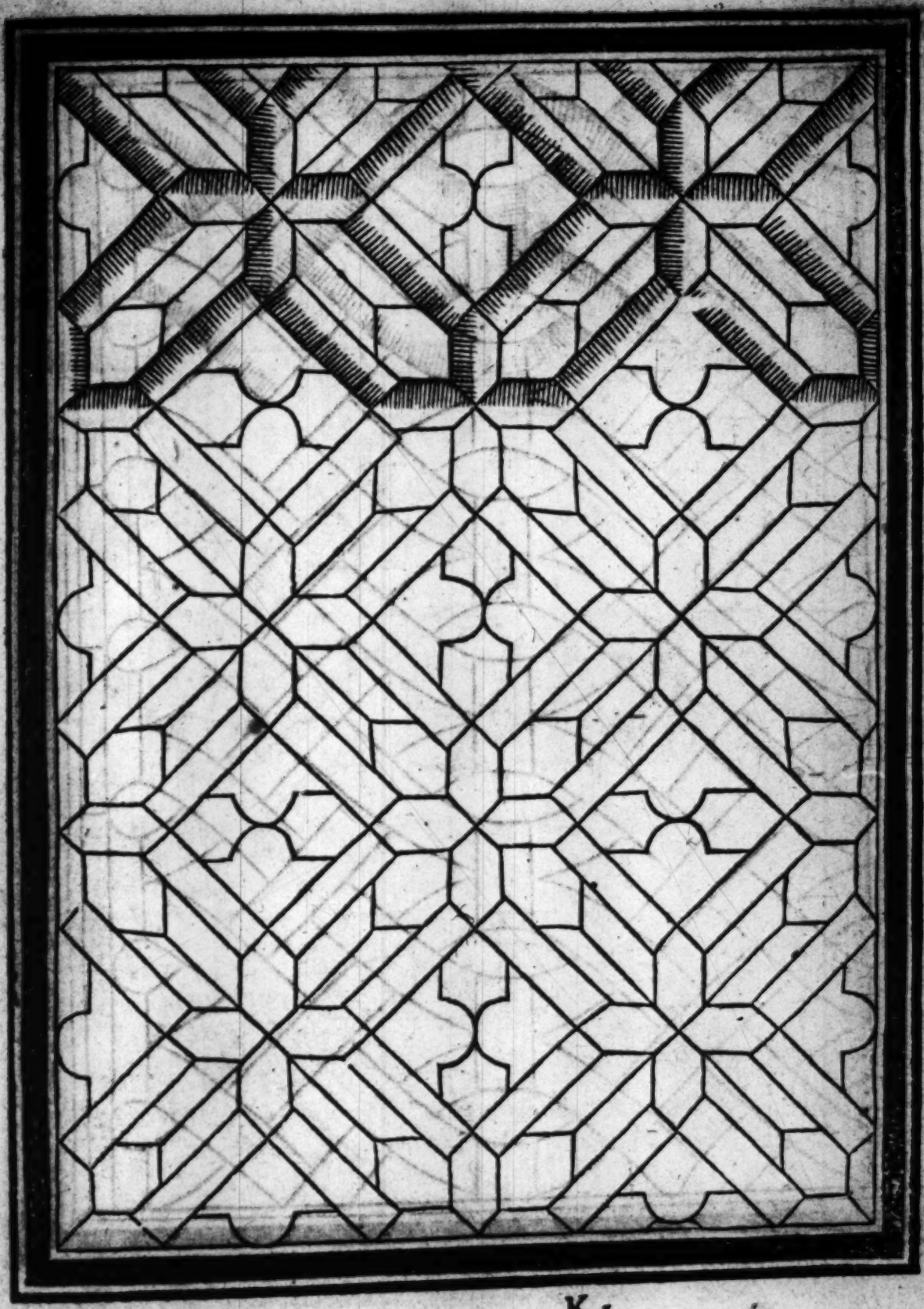

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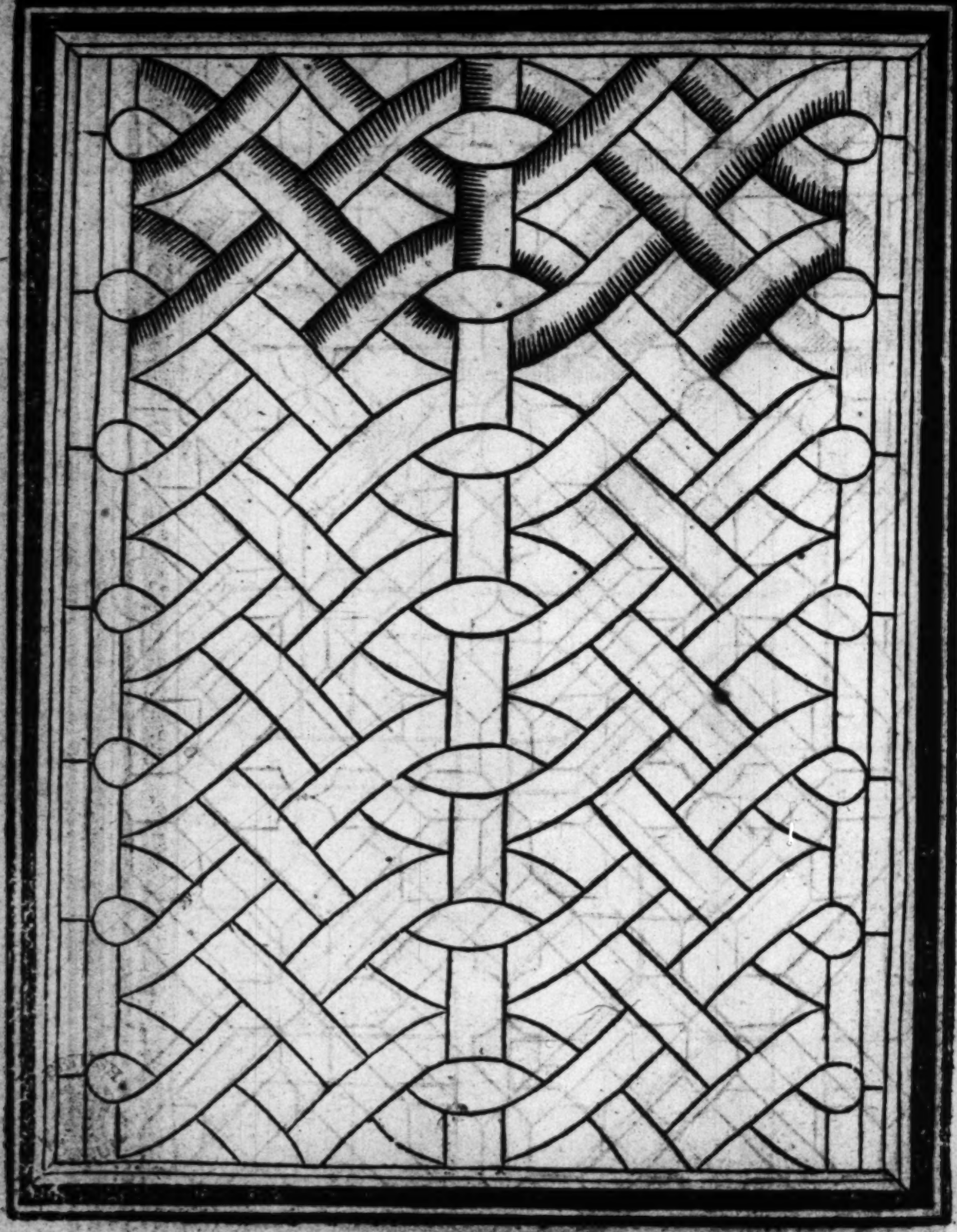

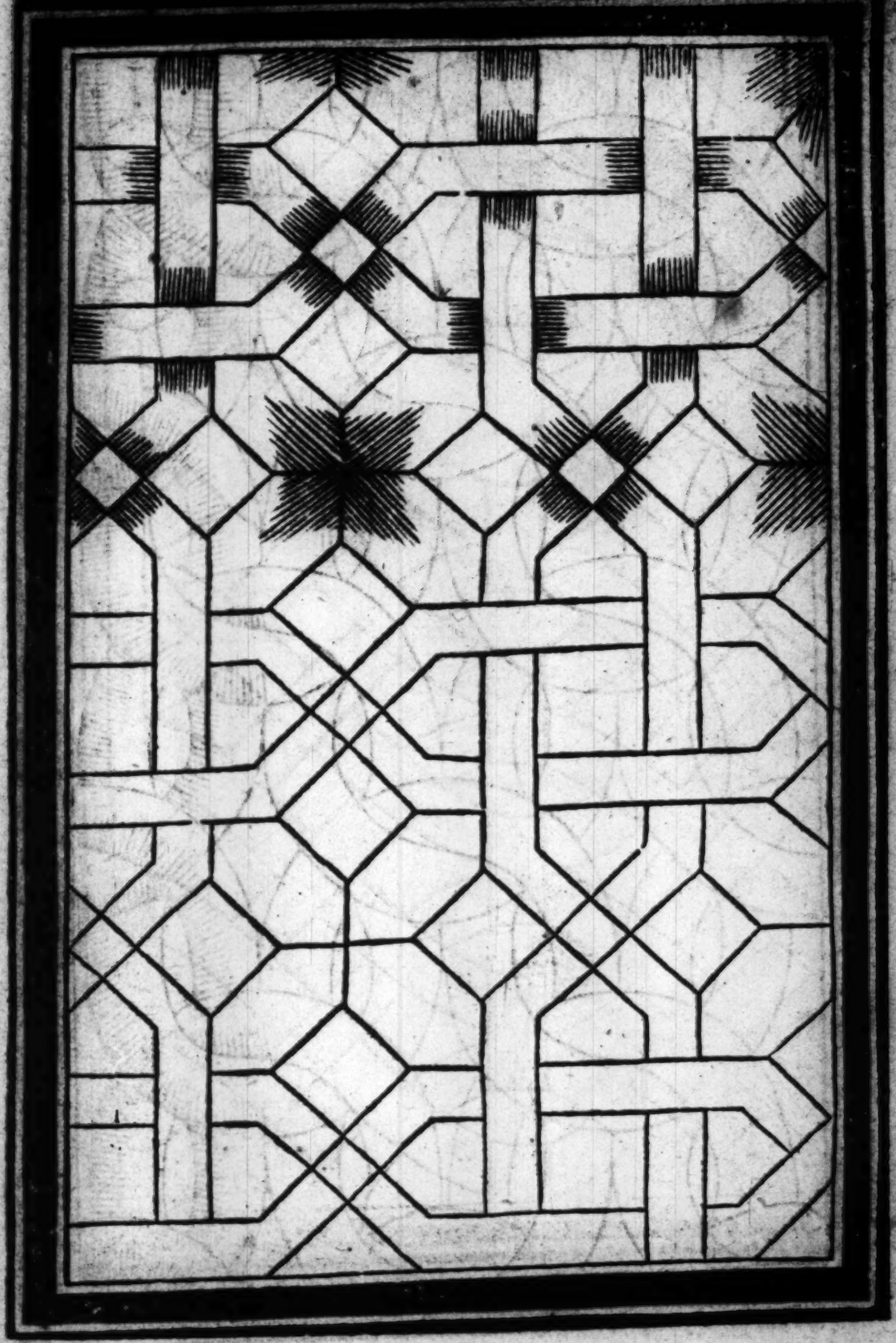

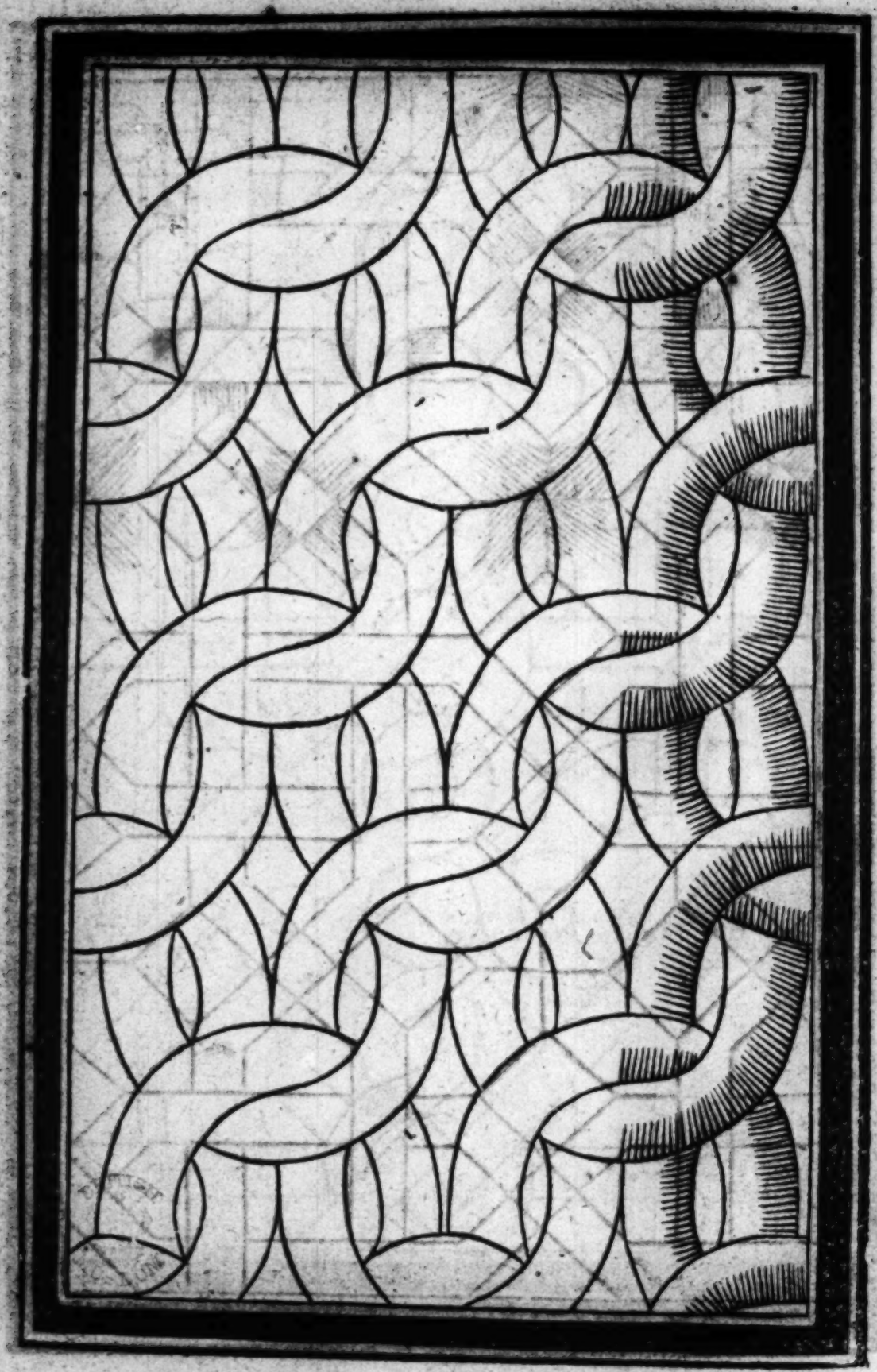

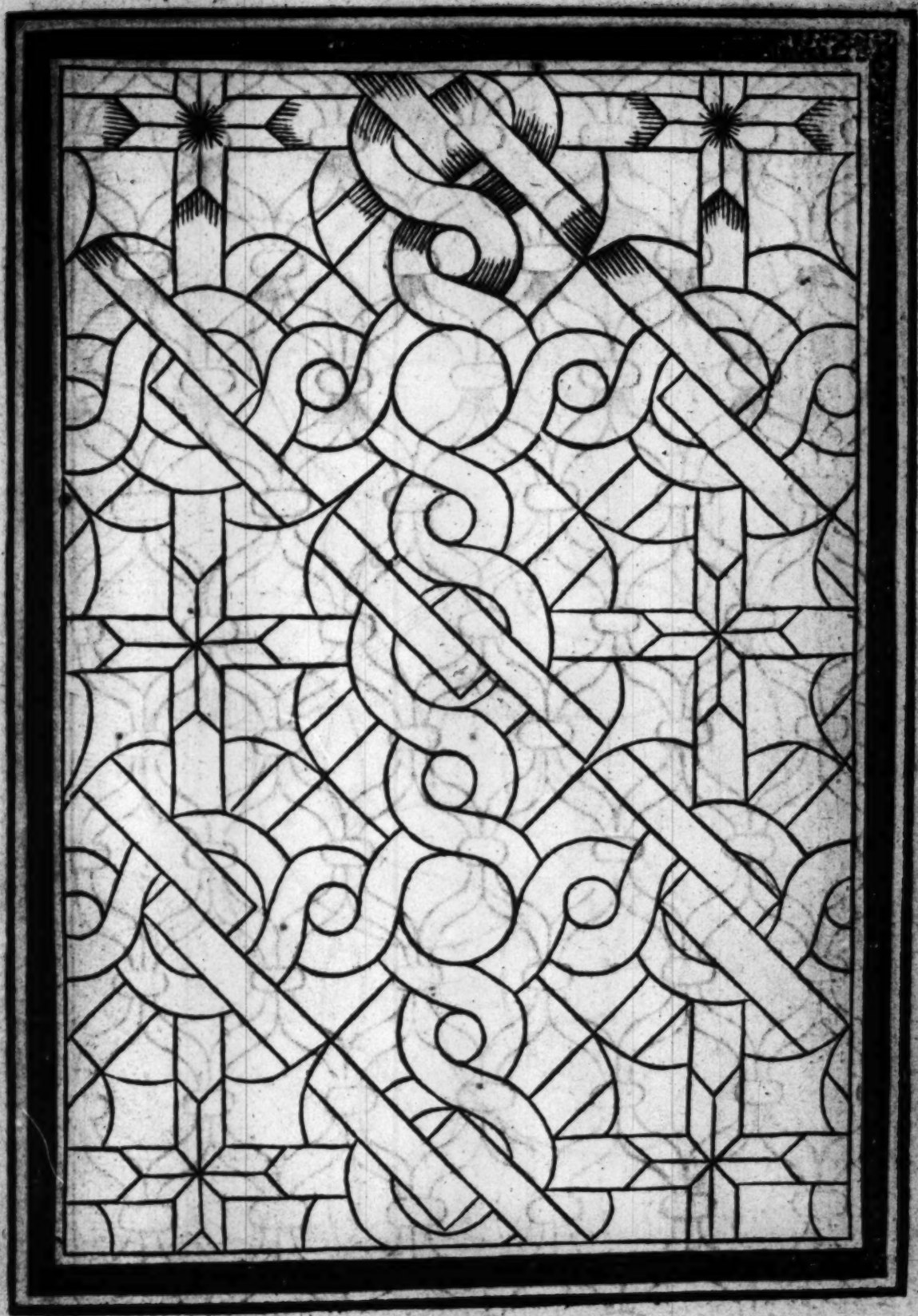

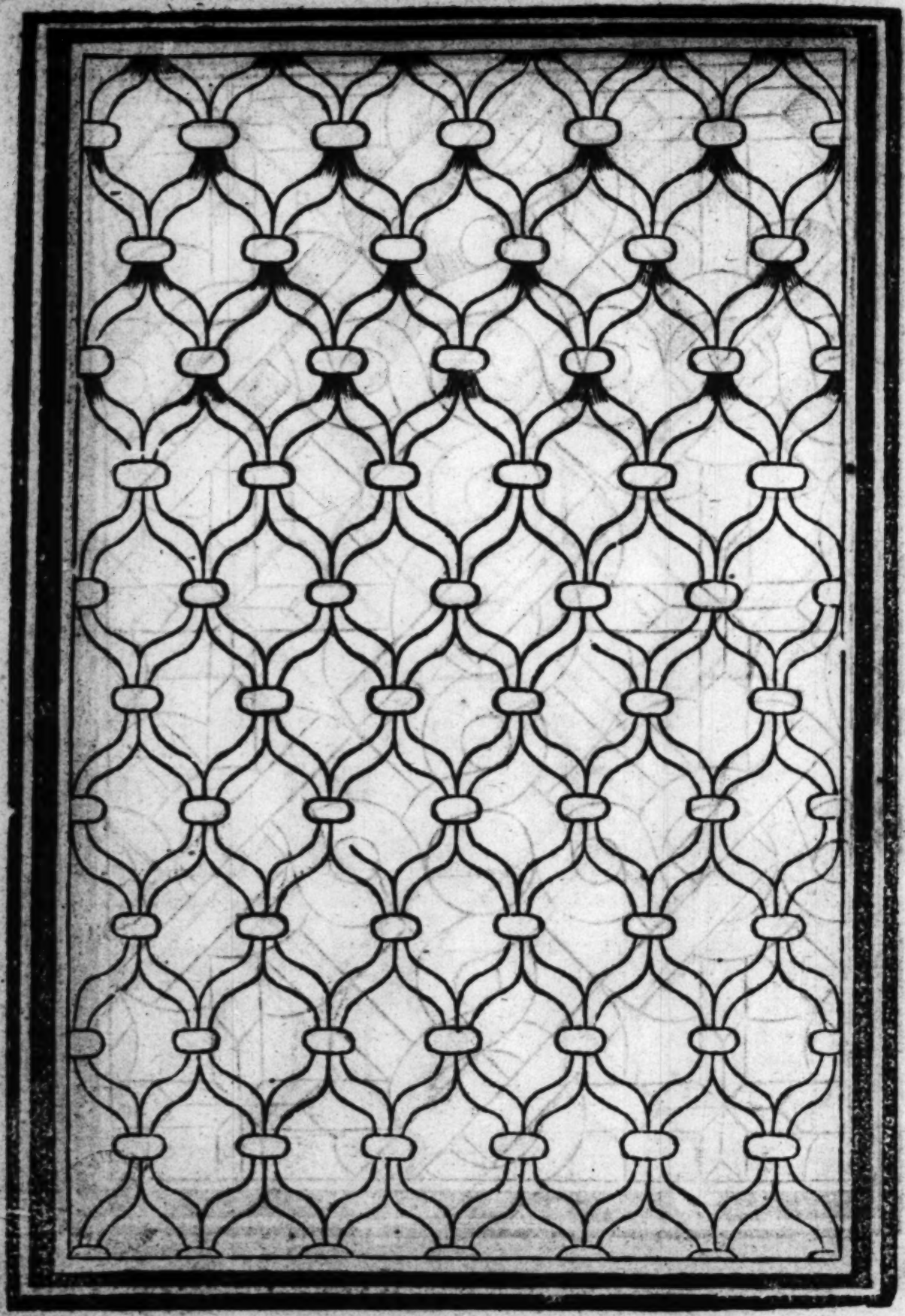

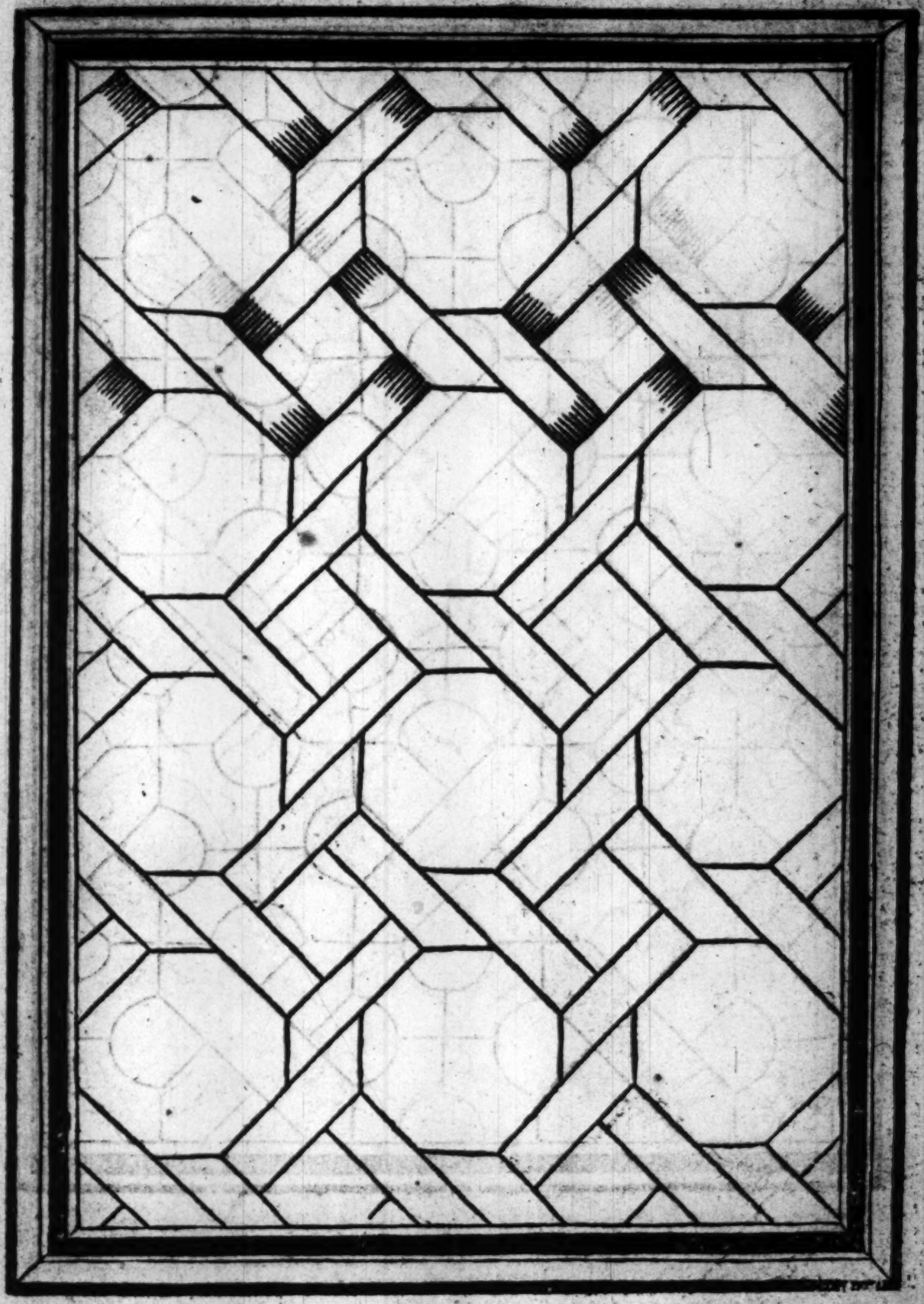

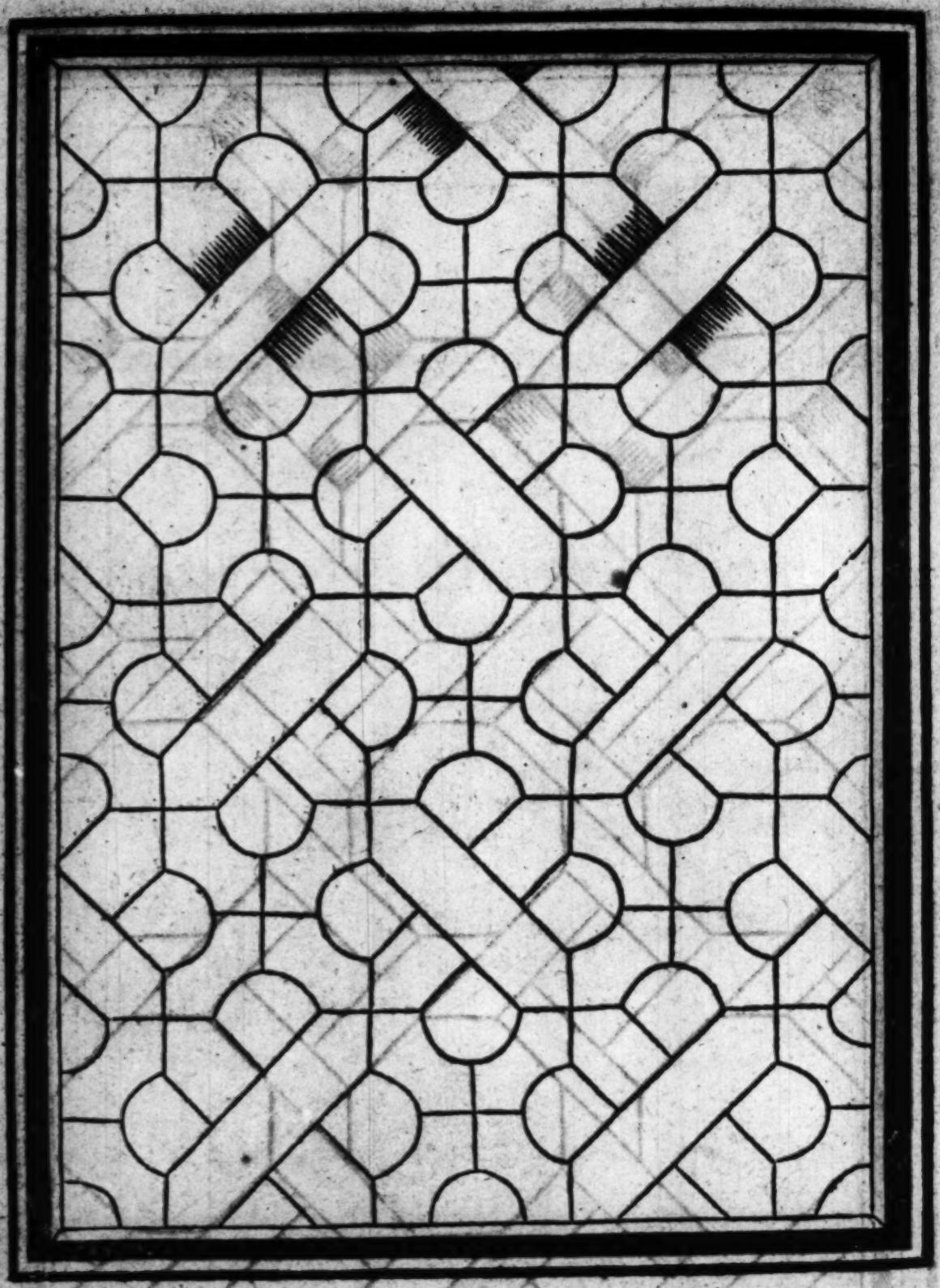

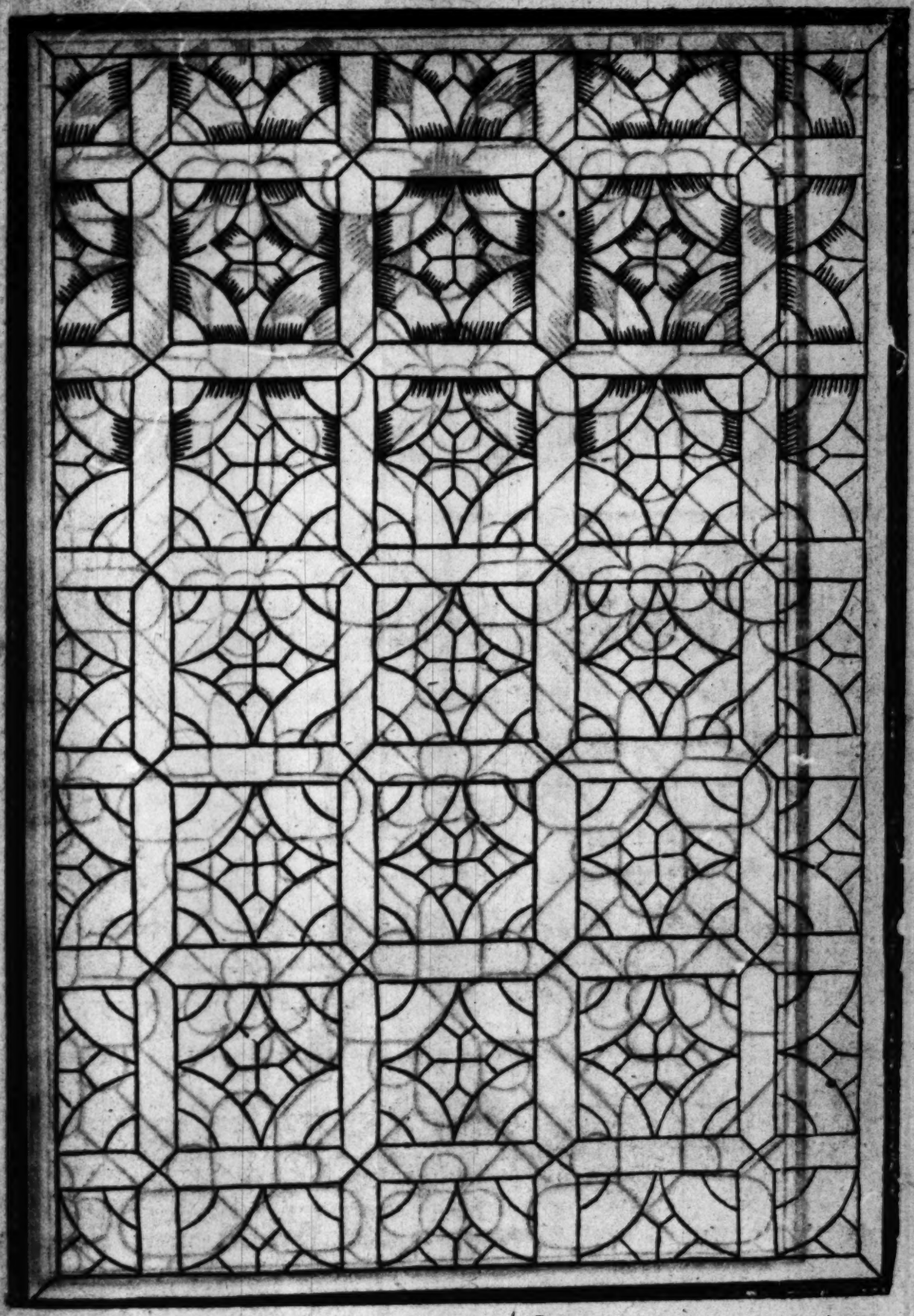

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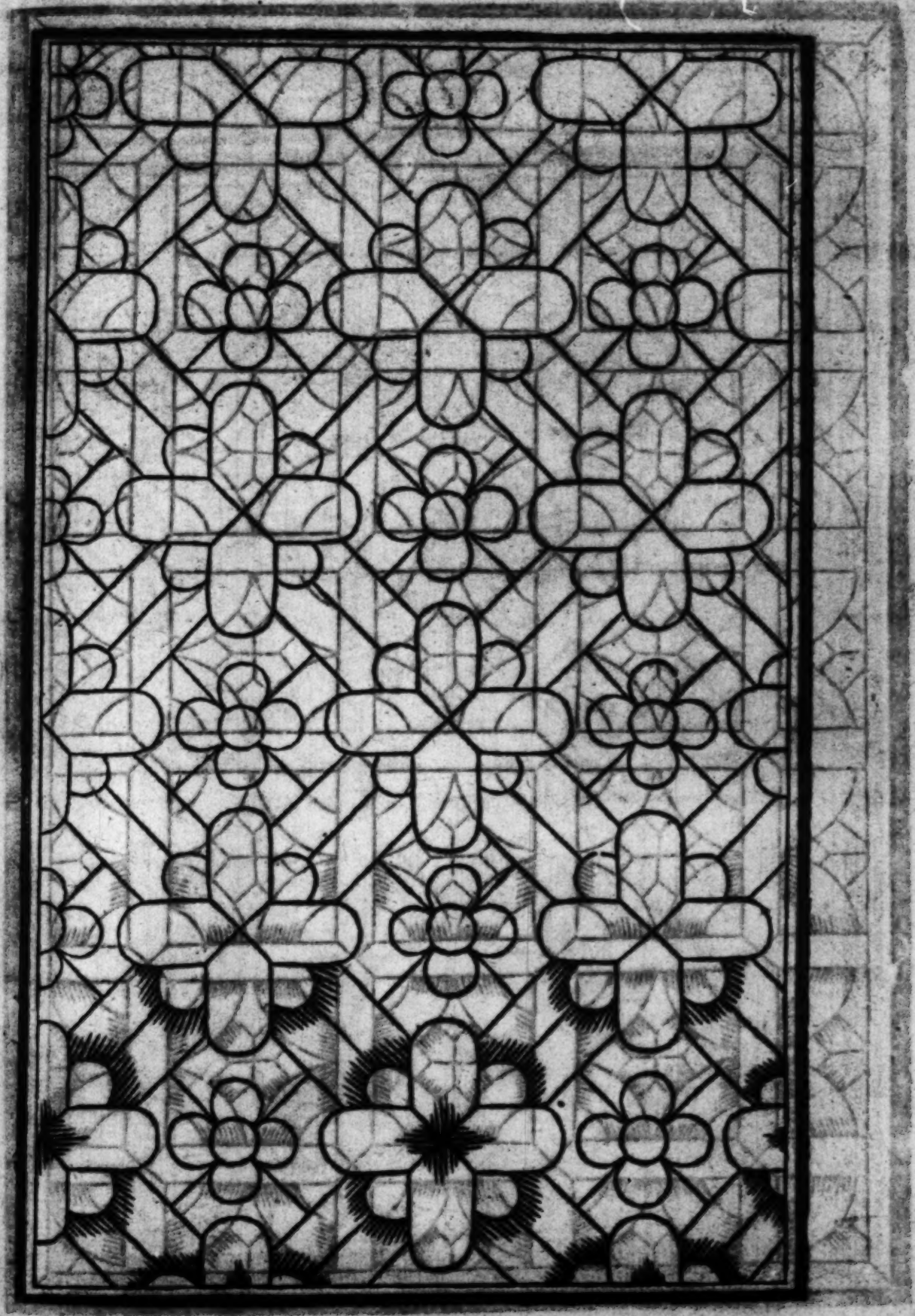
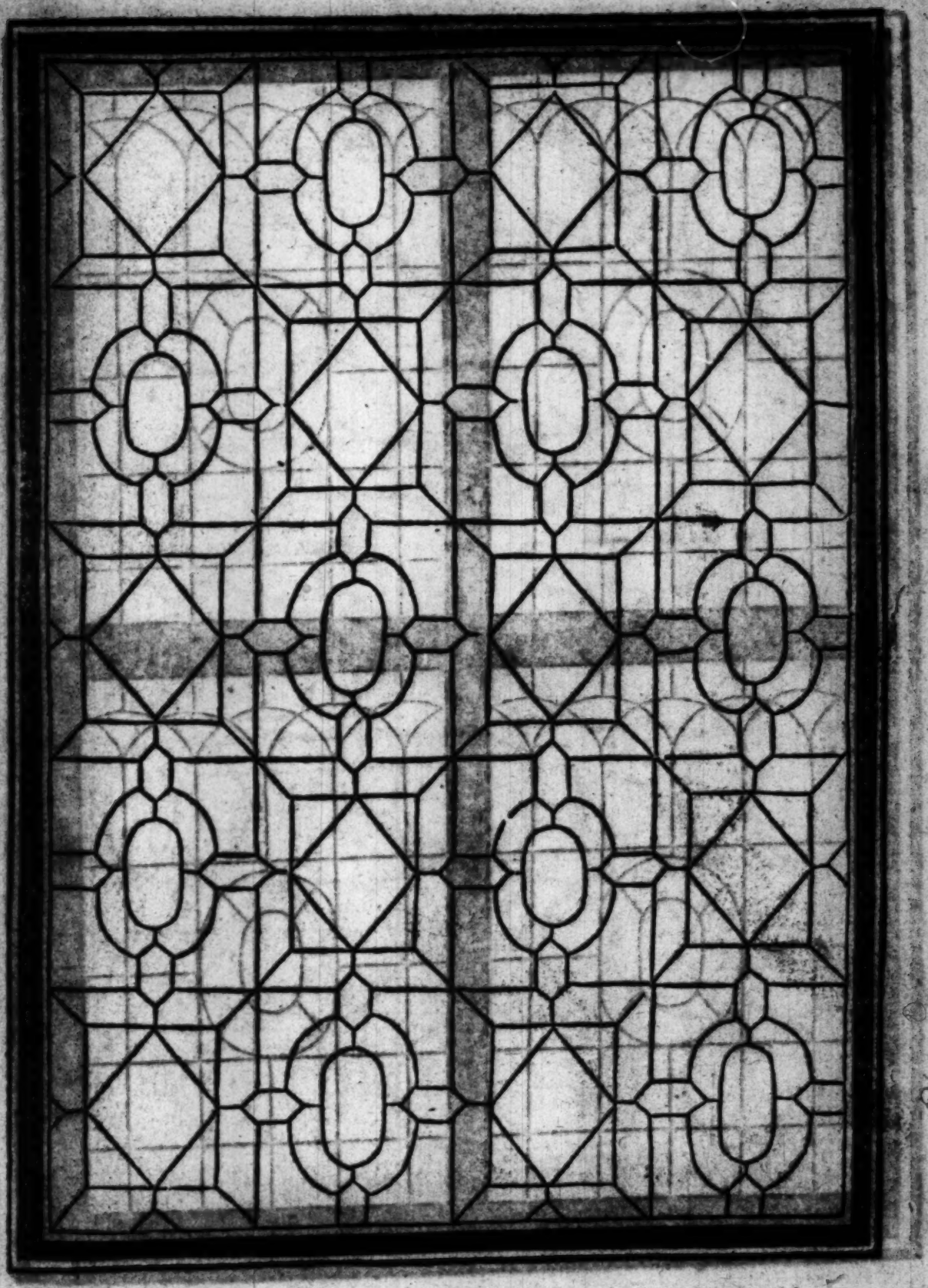
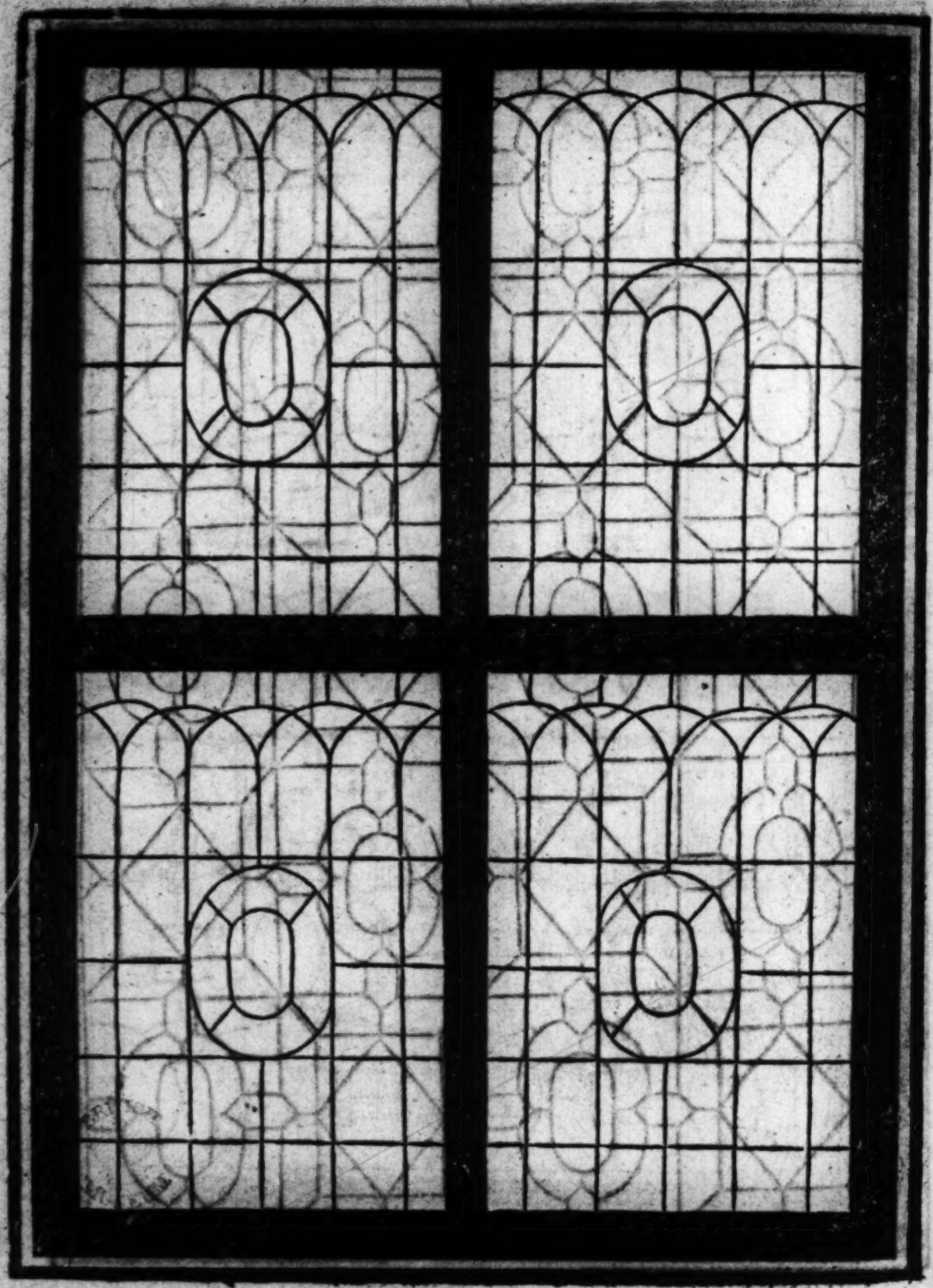
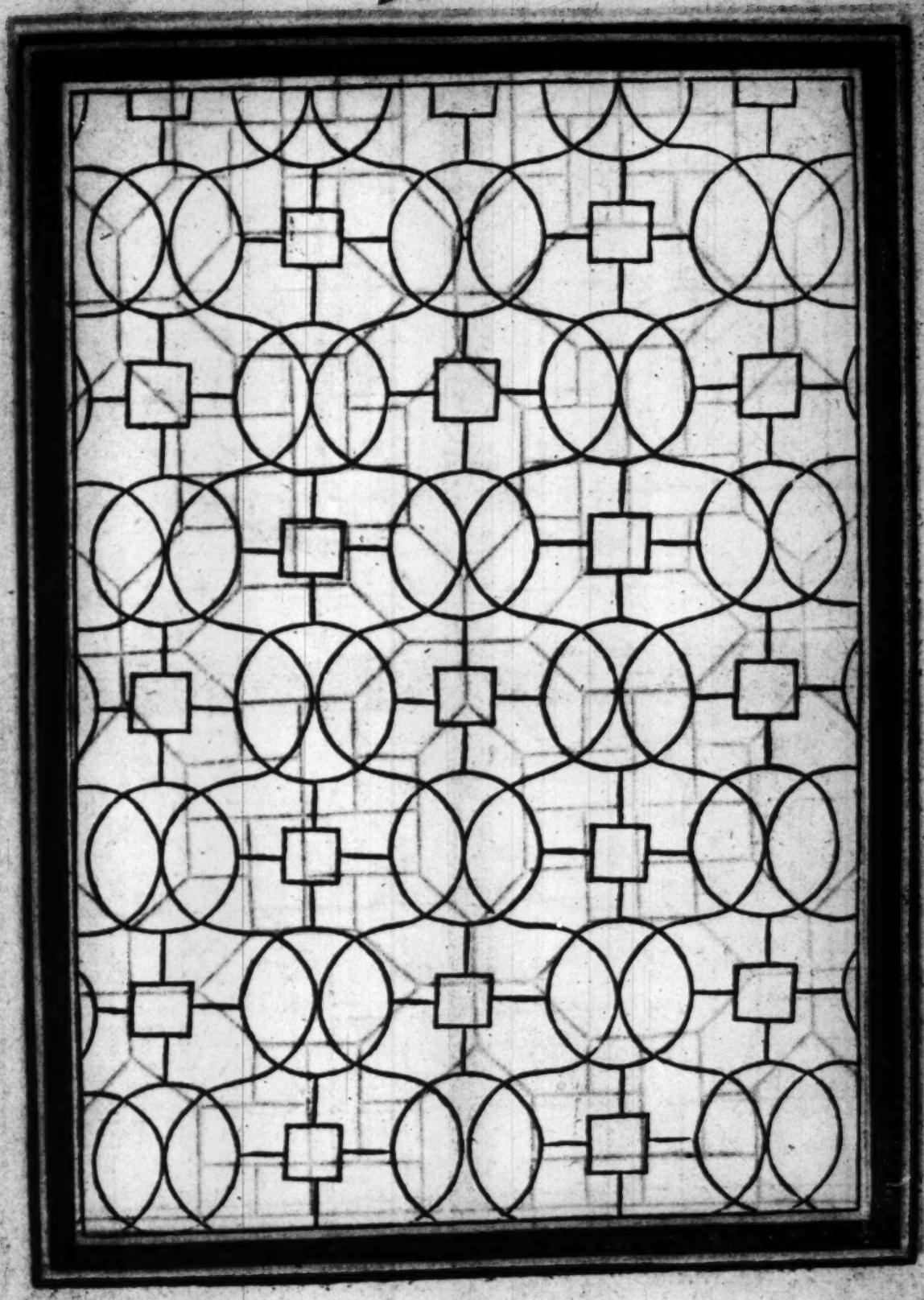
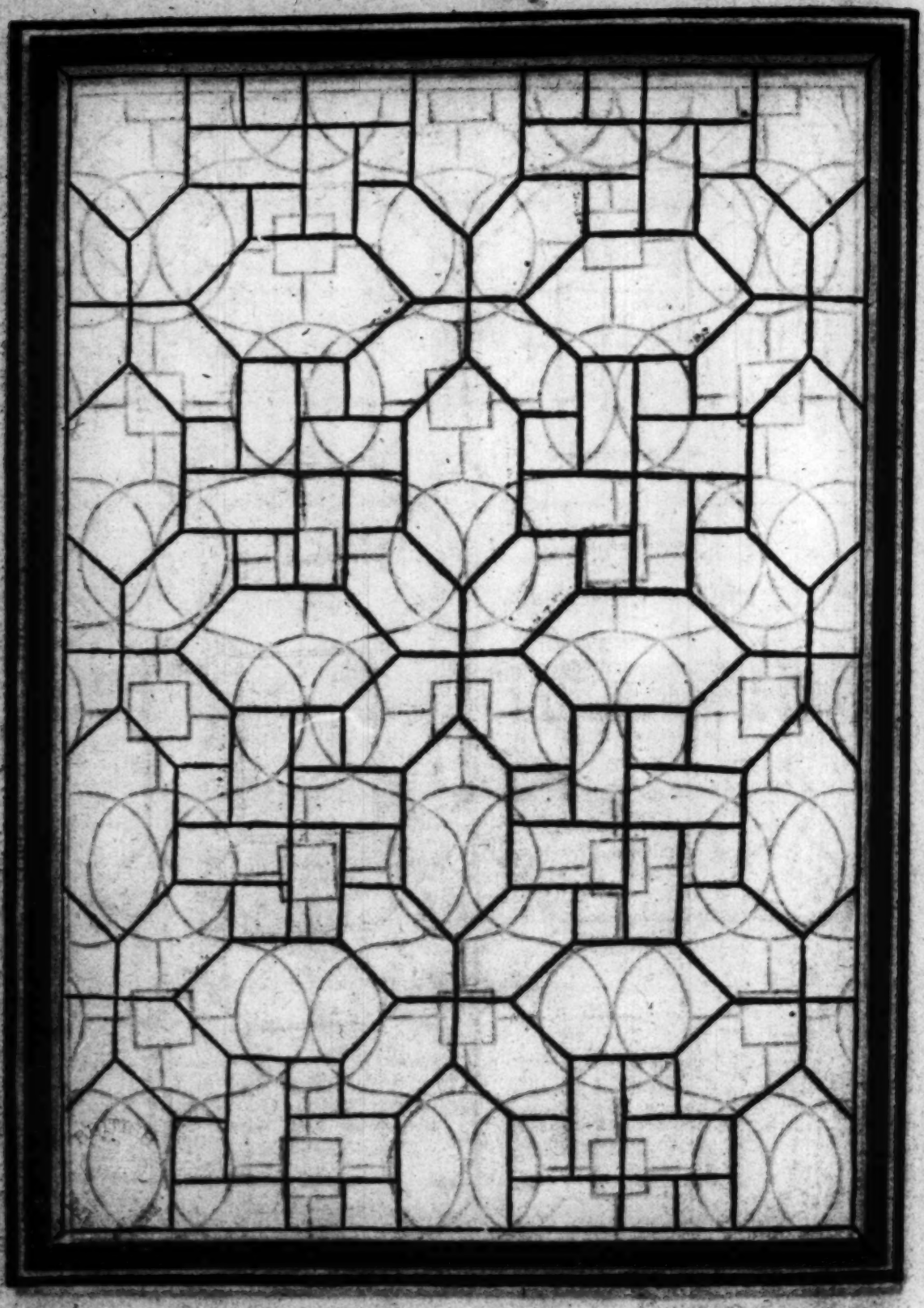
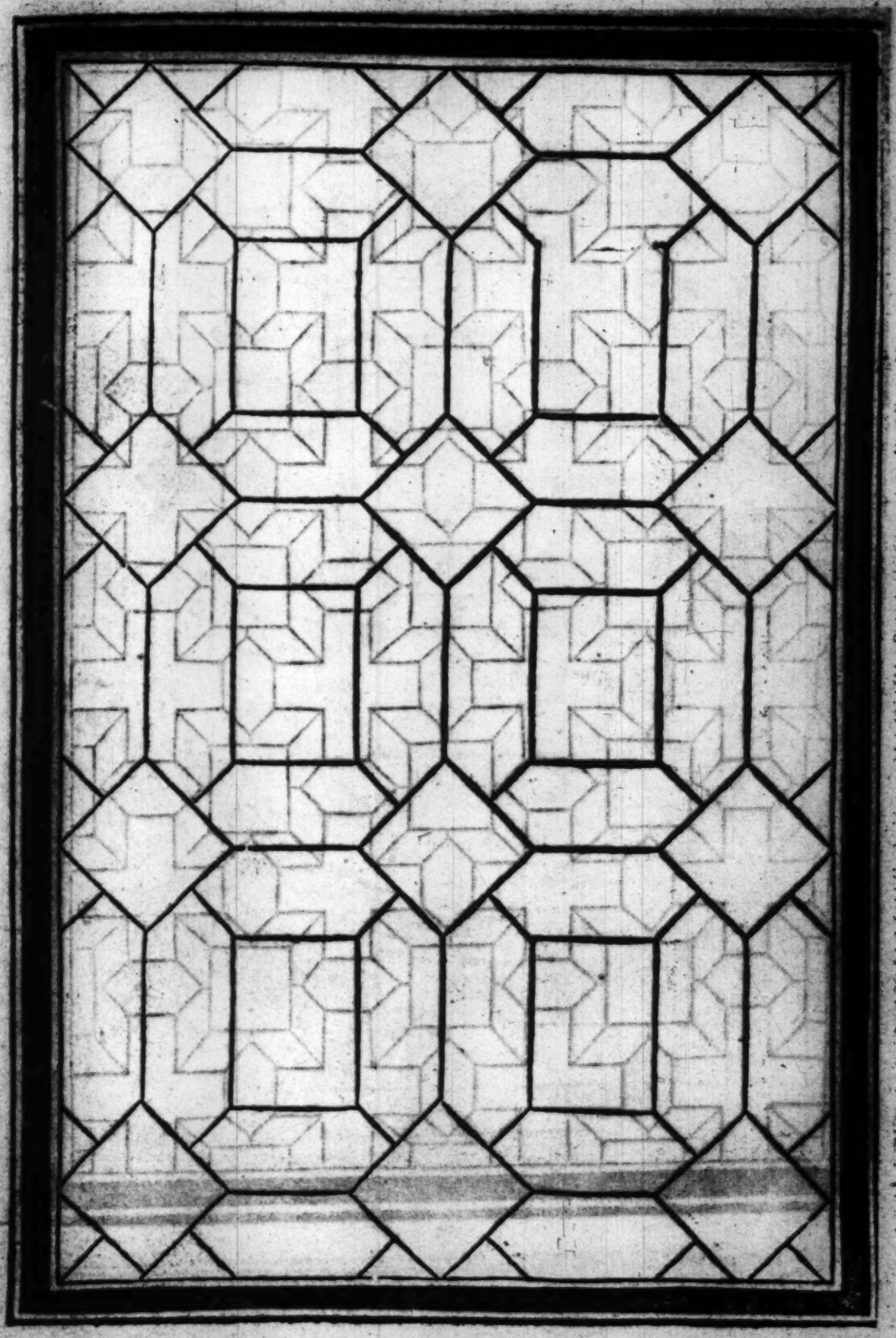


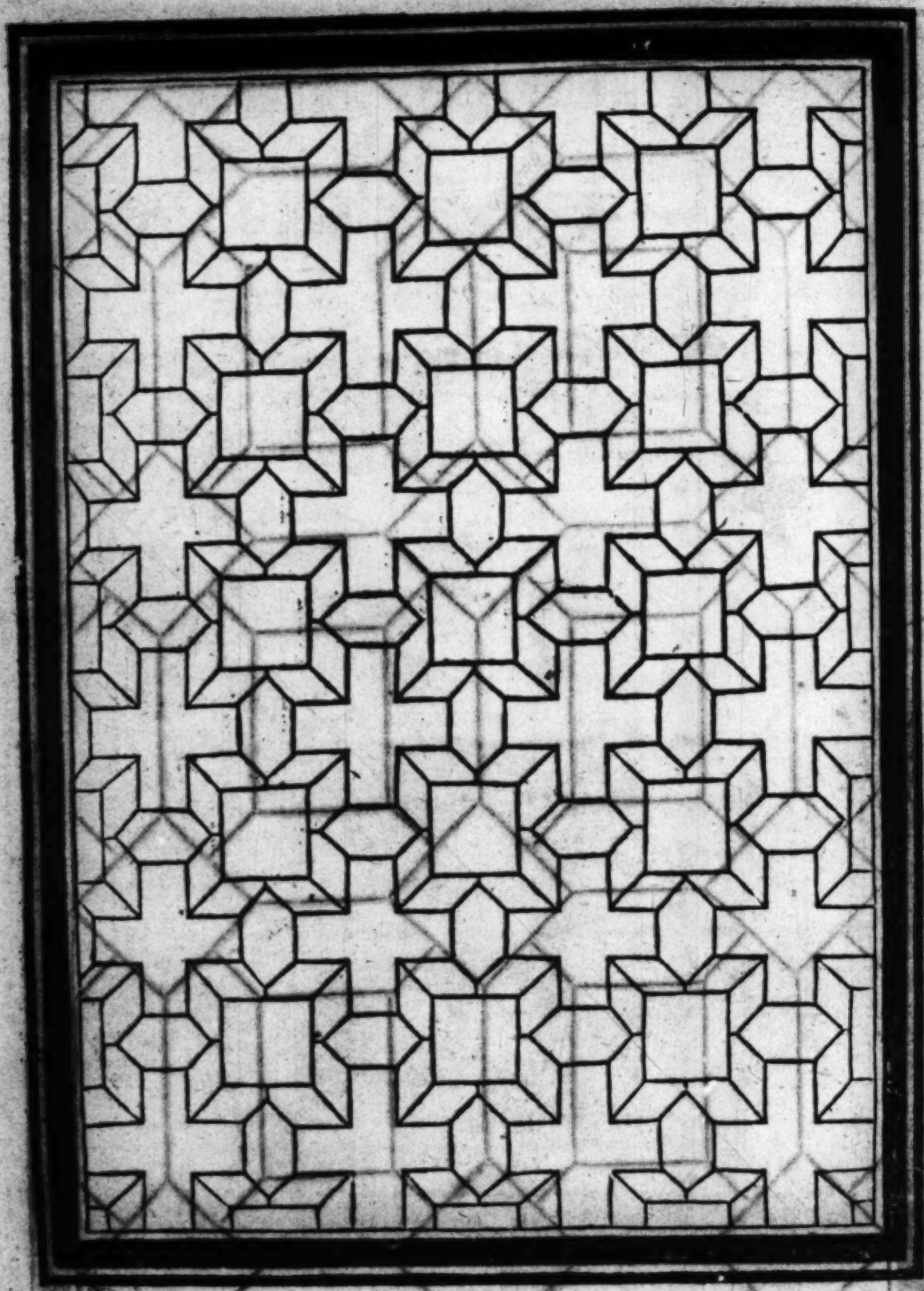




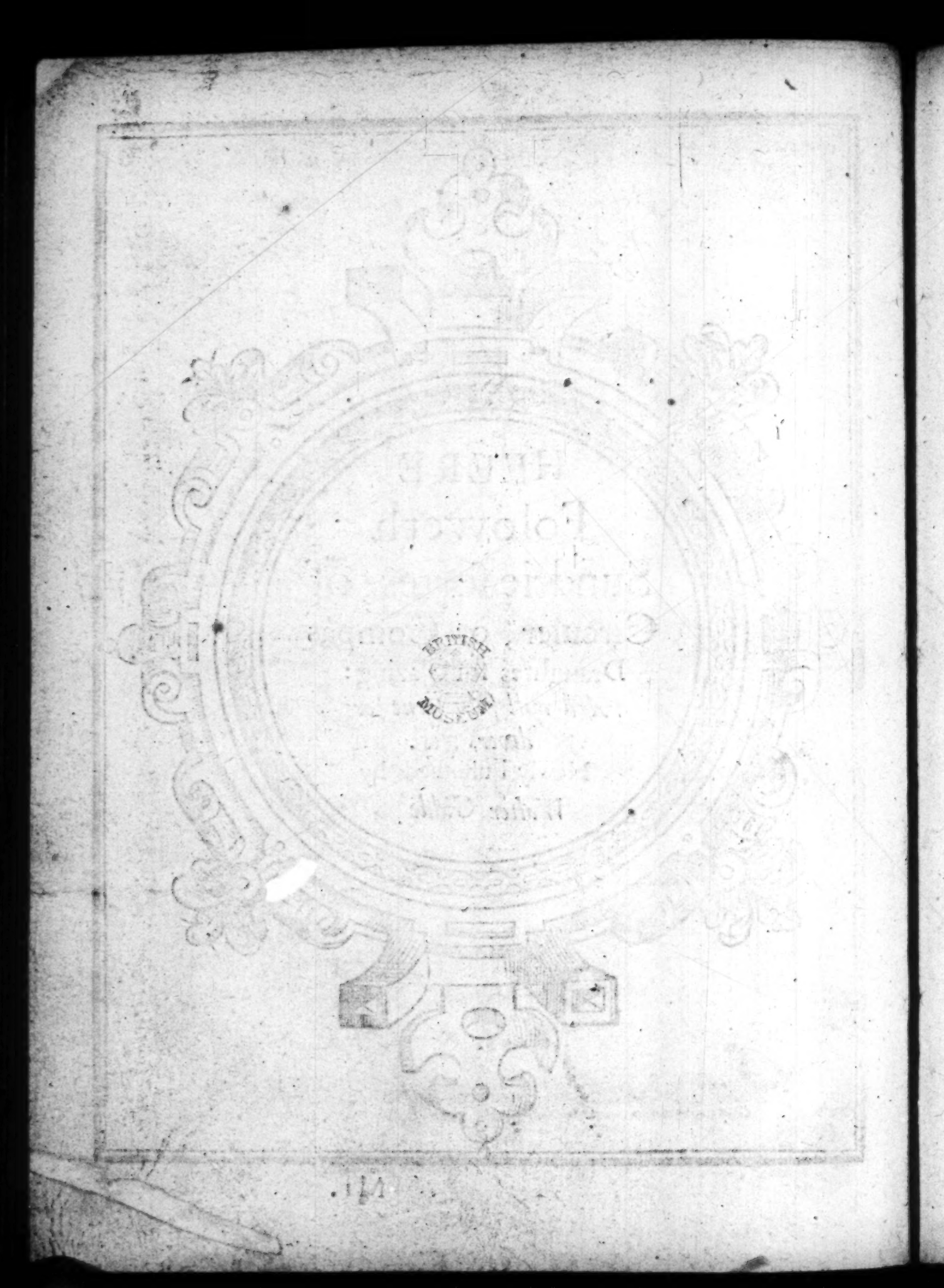








HEERE
Foloweth
Sundrie ſortes, of
Circuler, or Compas
Draughtes for Glazing:
And will fitly ſerue for
divers vſes.
Newly Publiſhed by
Walter Gidde.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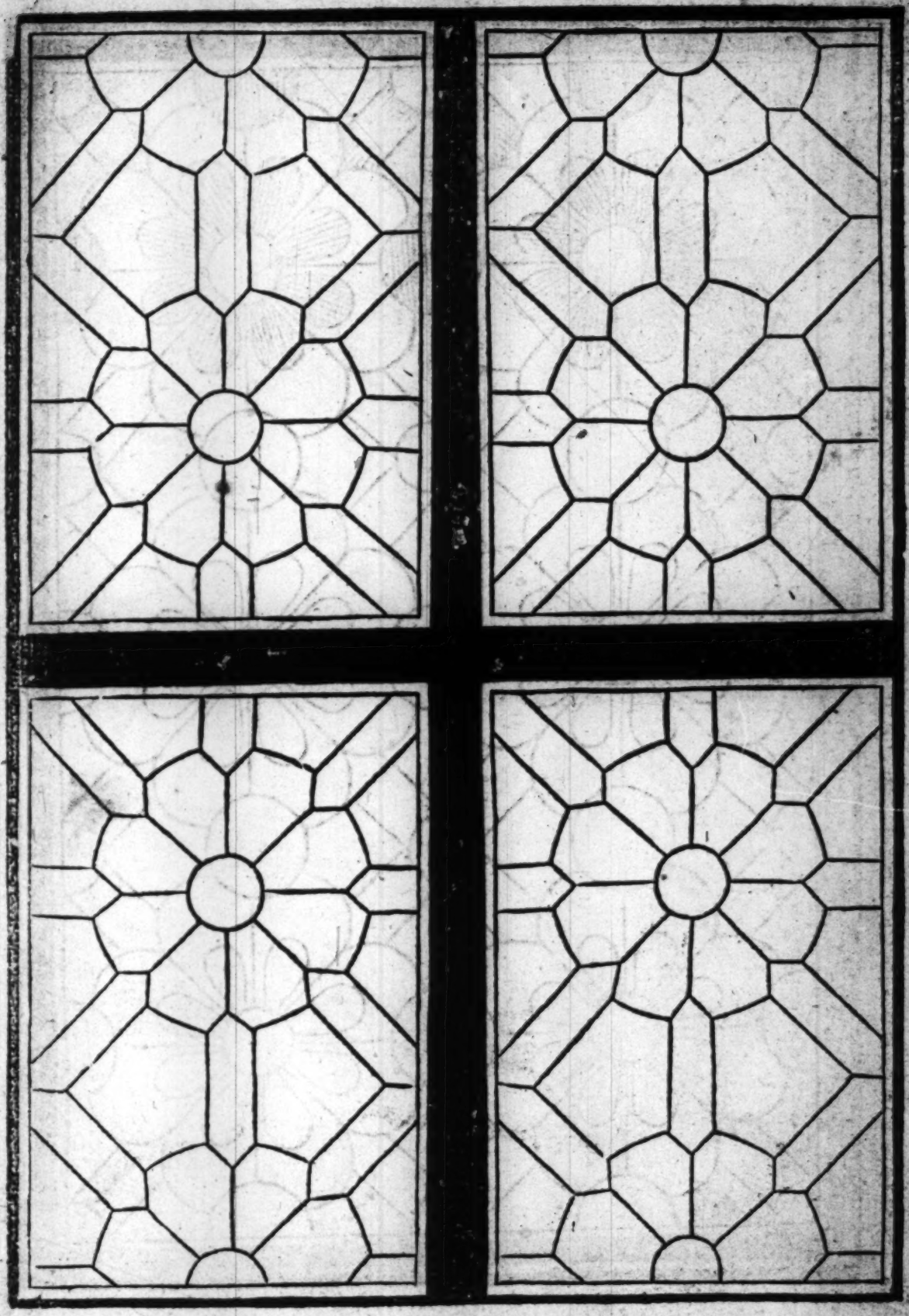

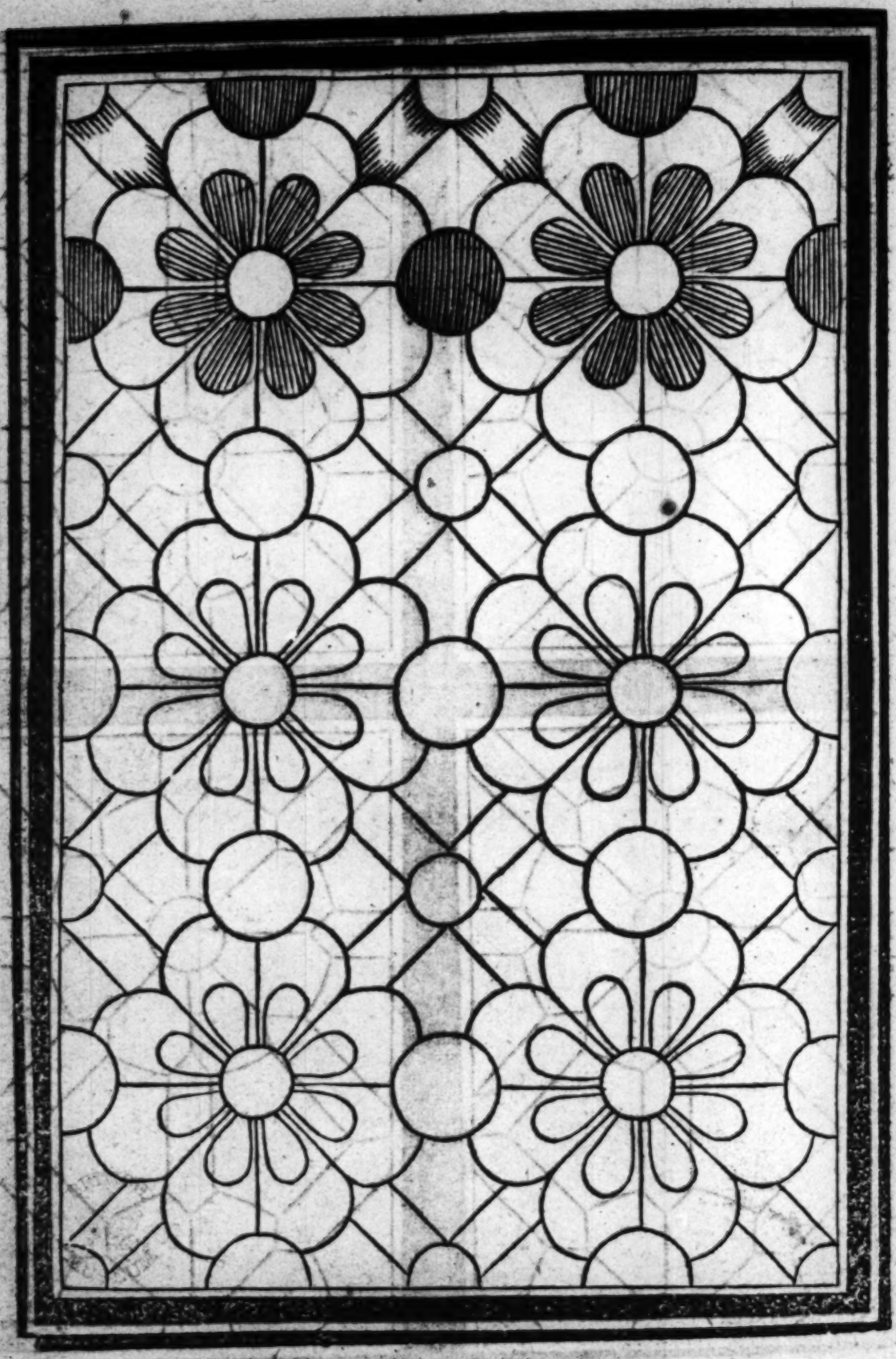

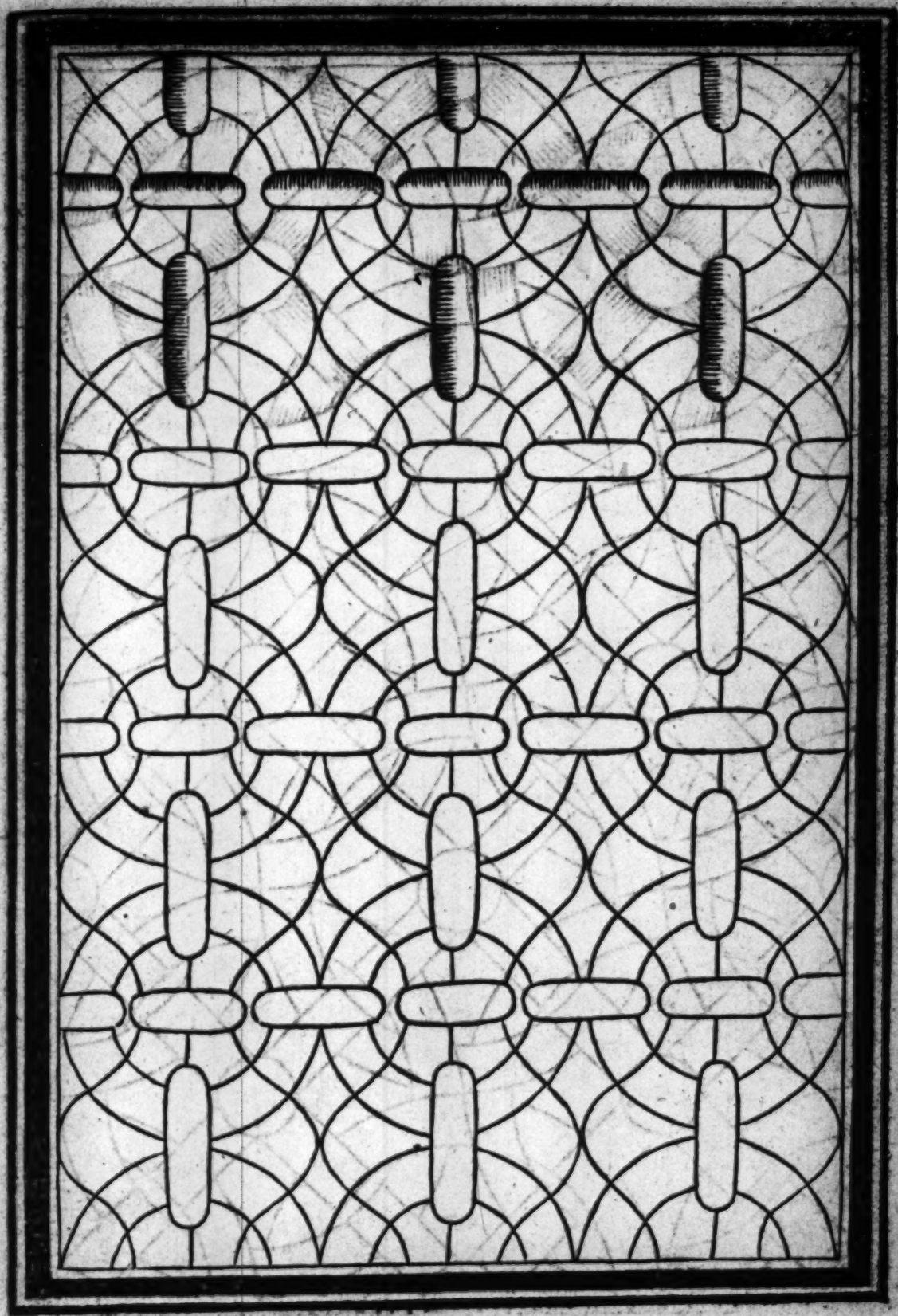

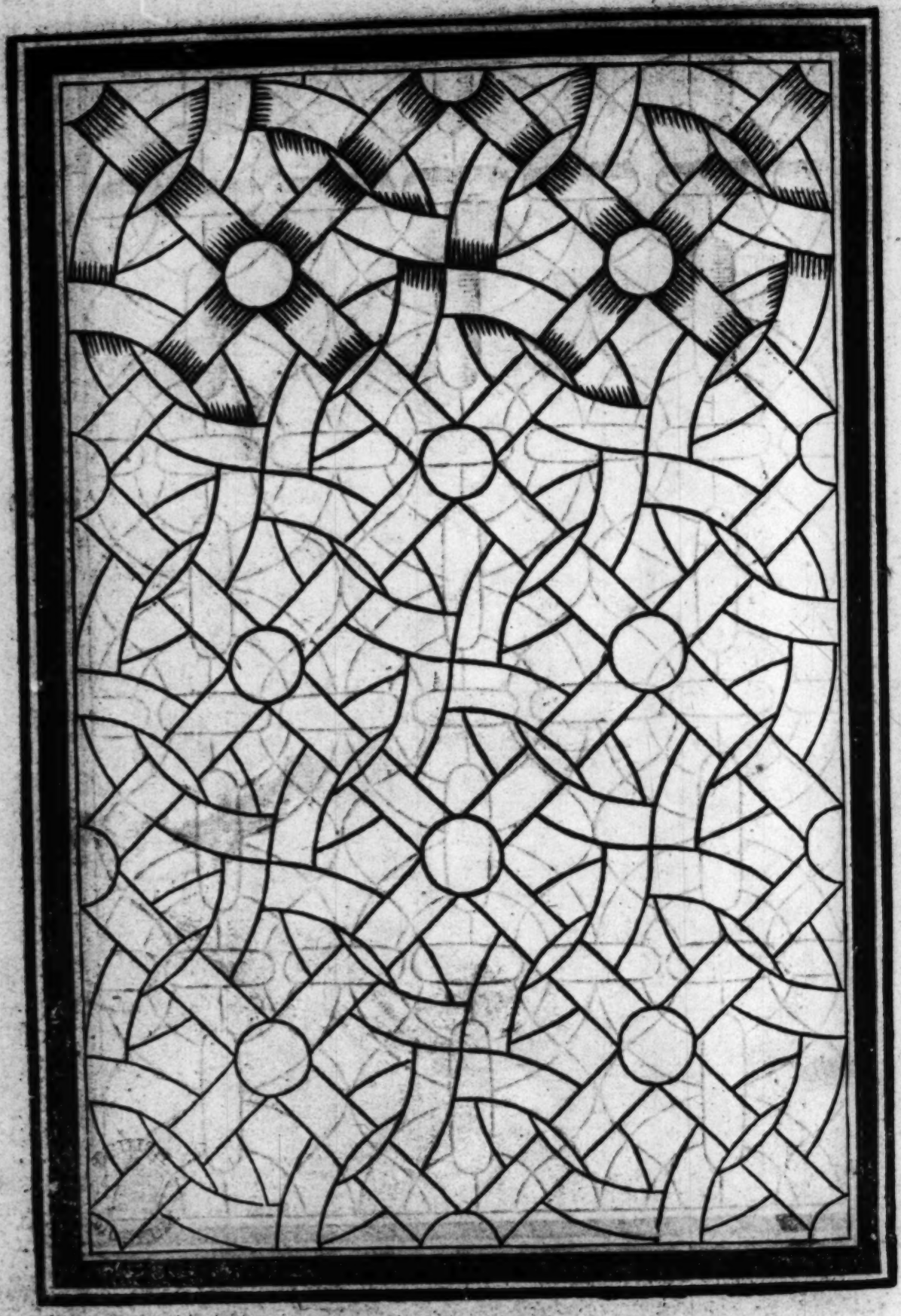

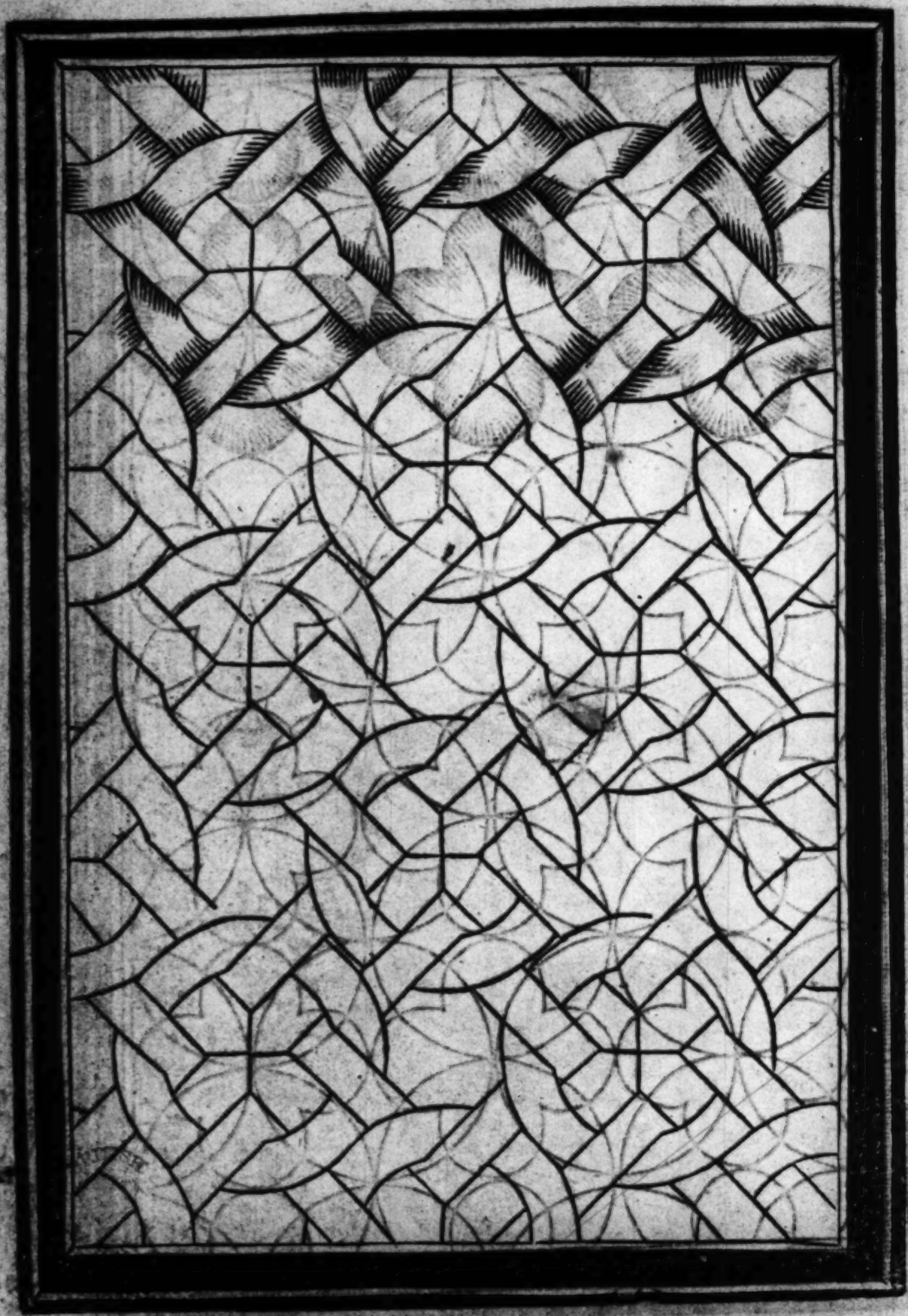

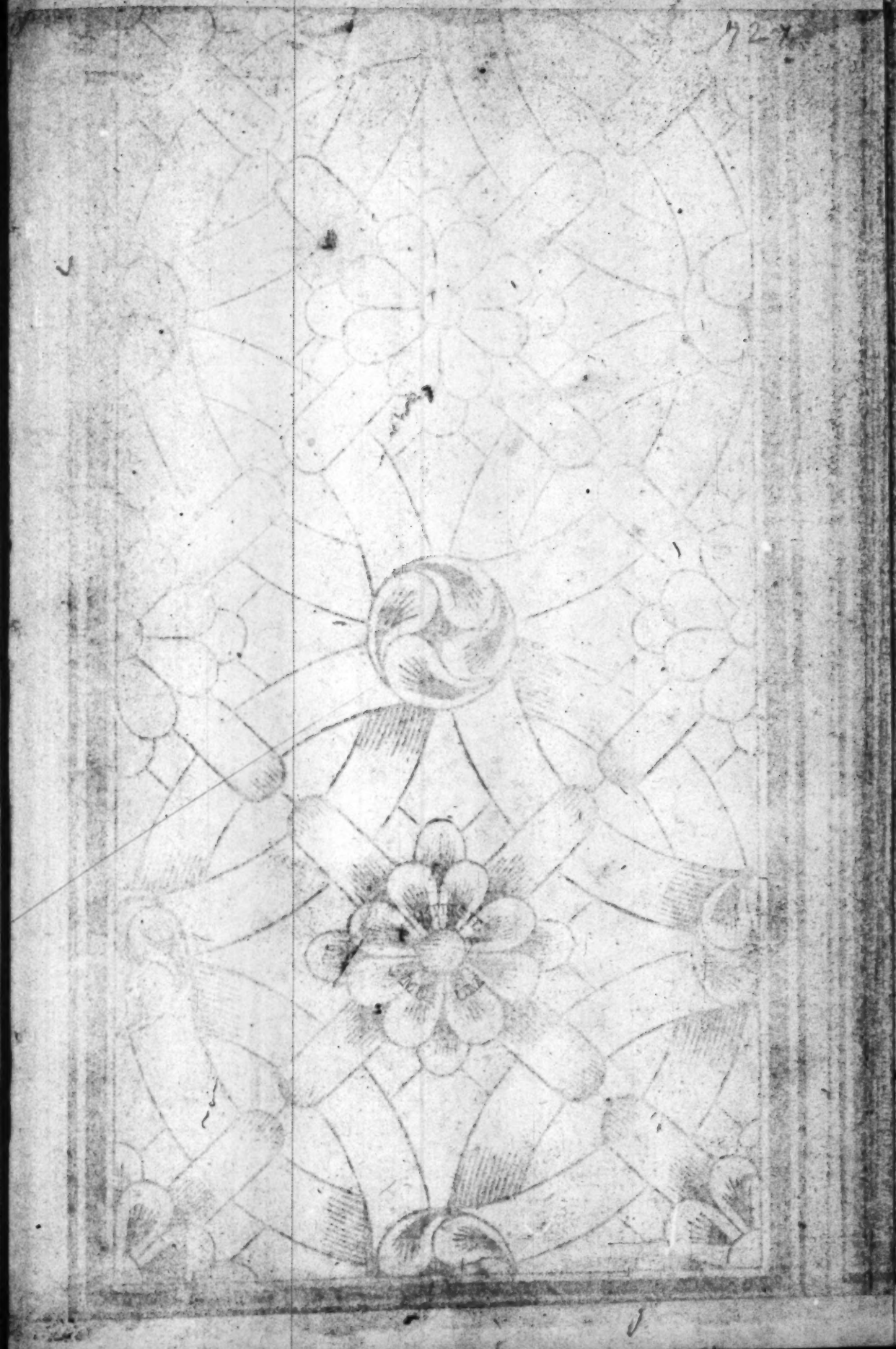

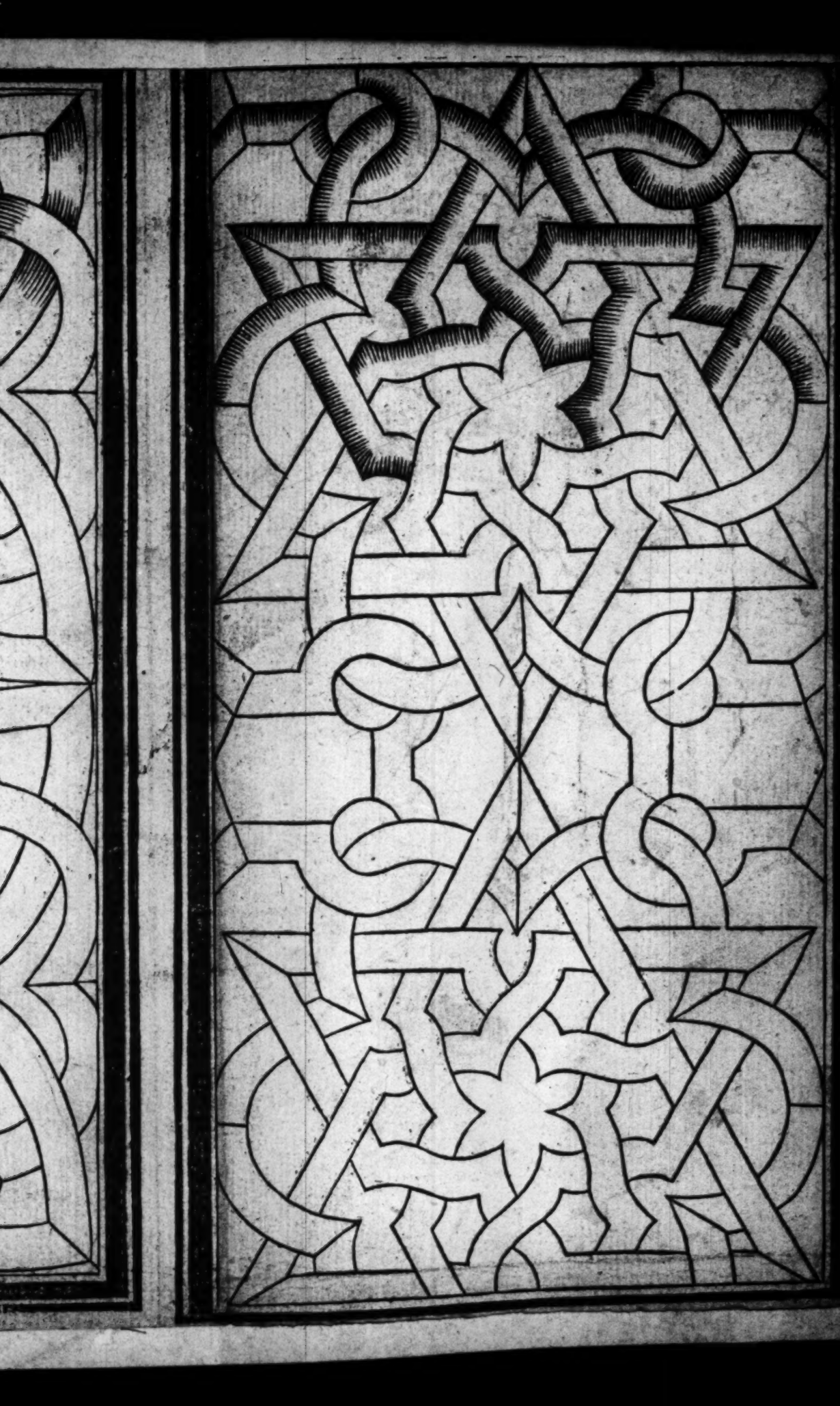

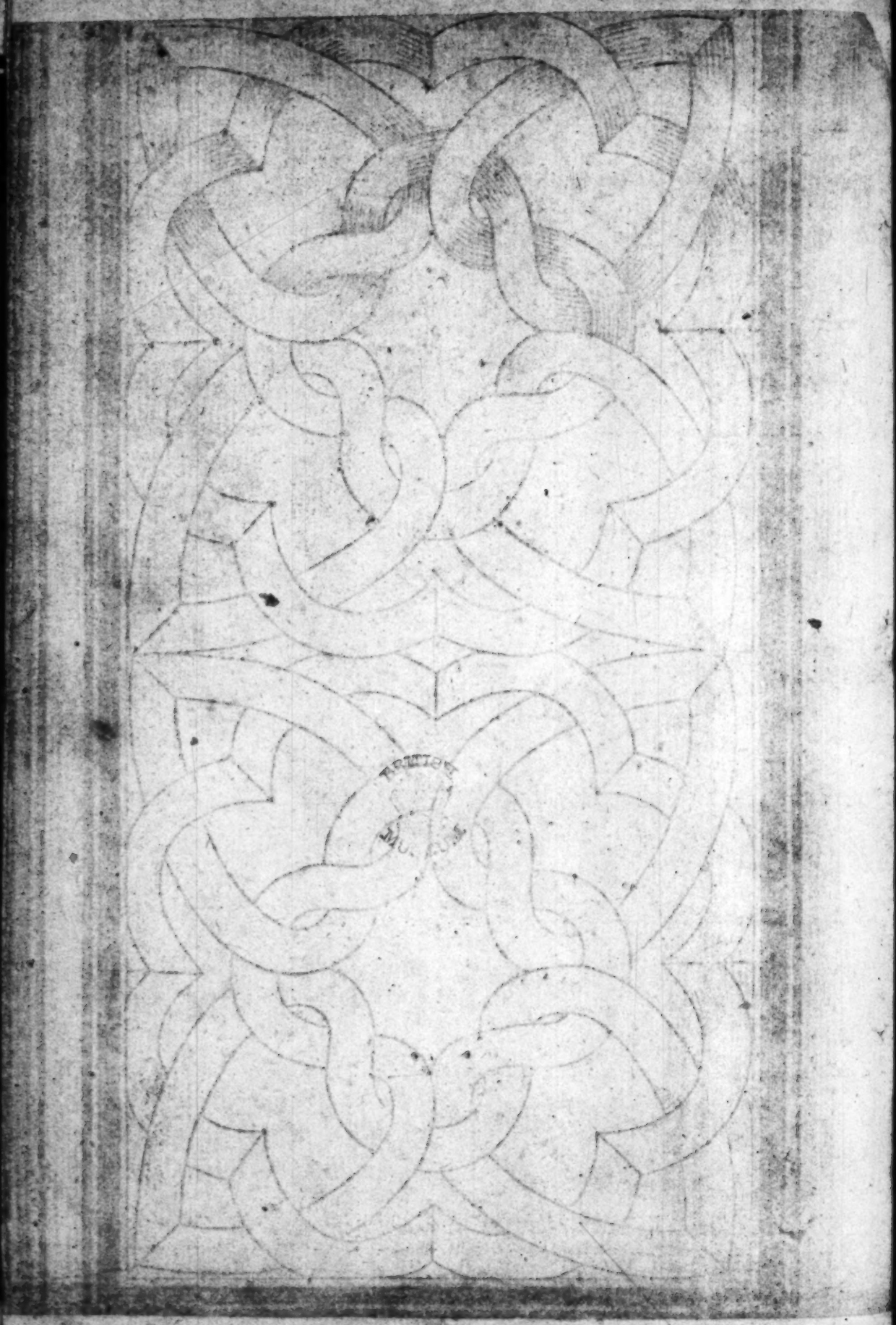

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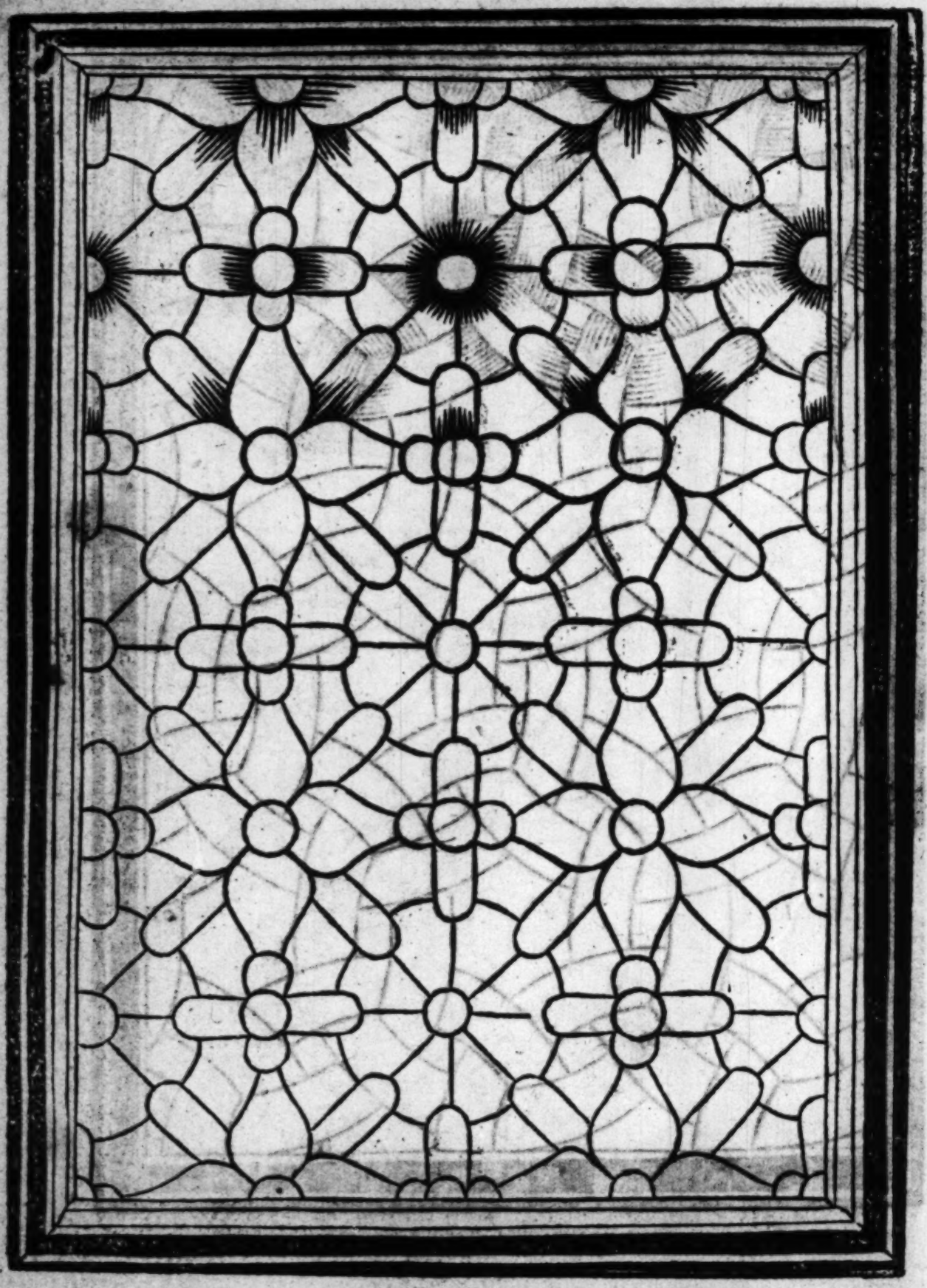

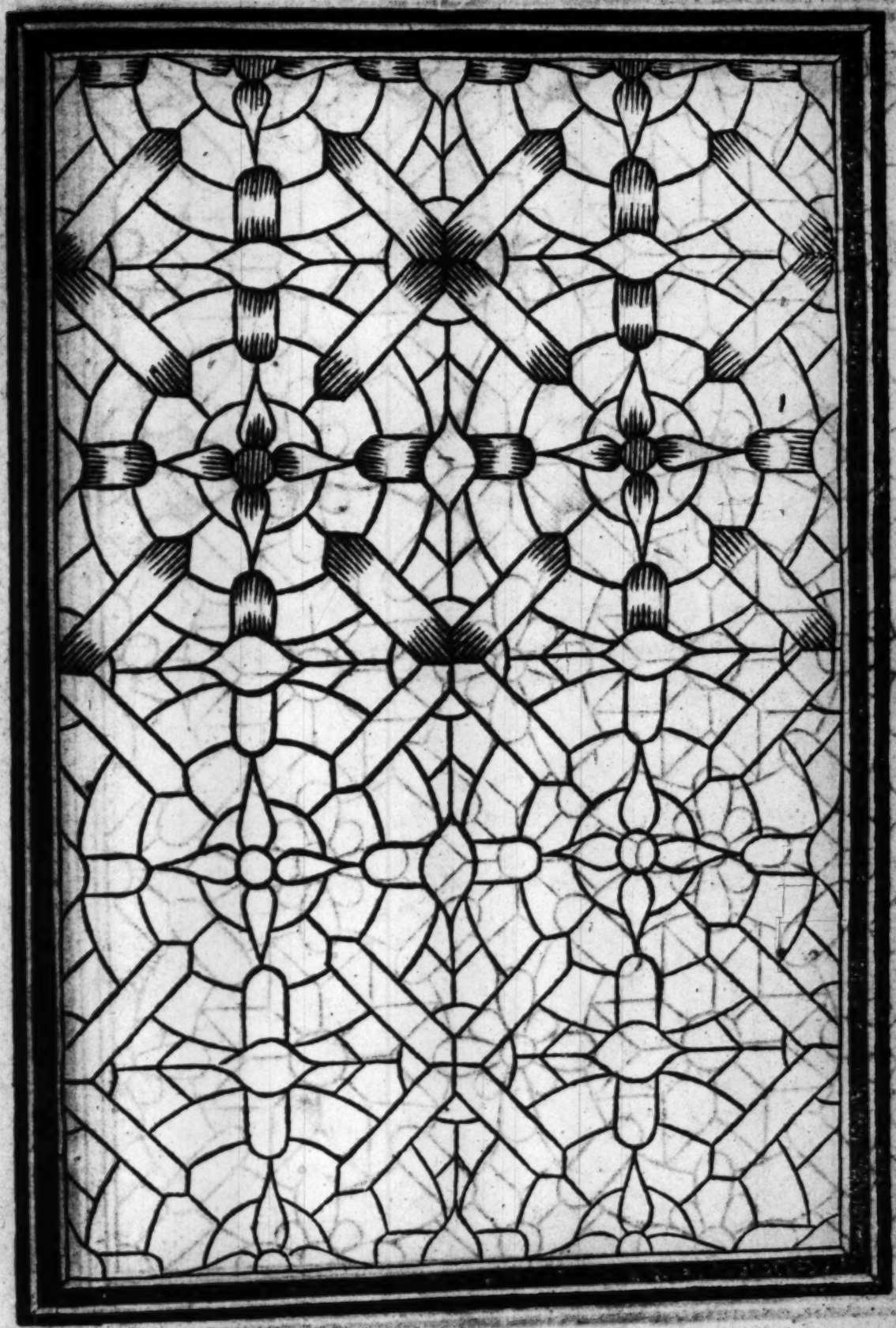

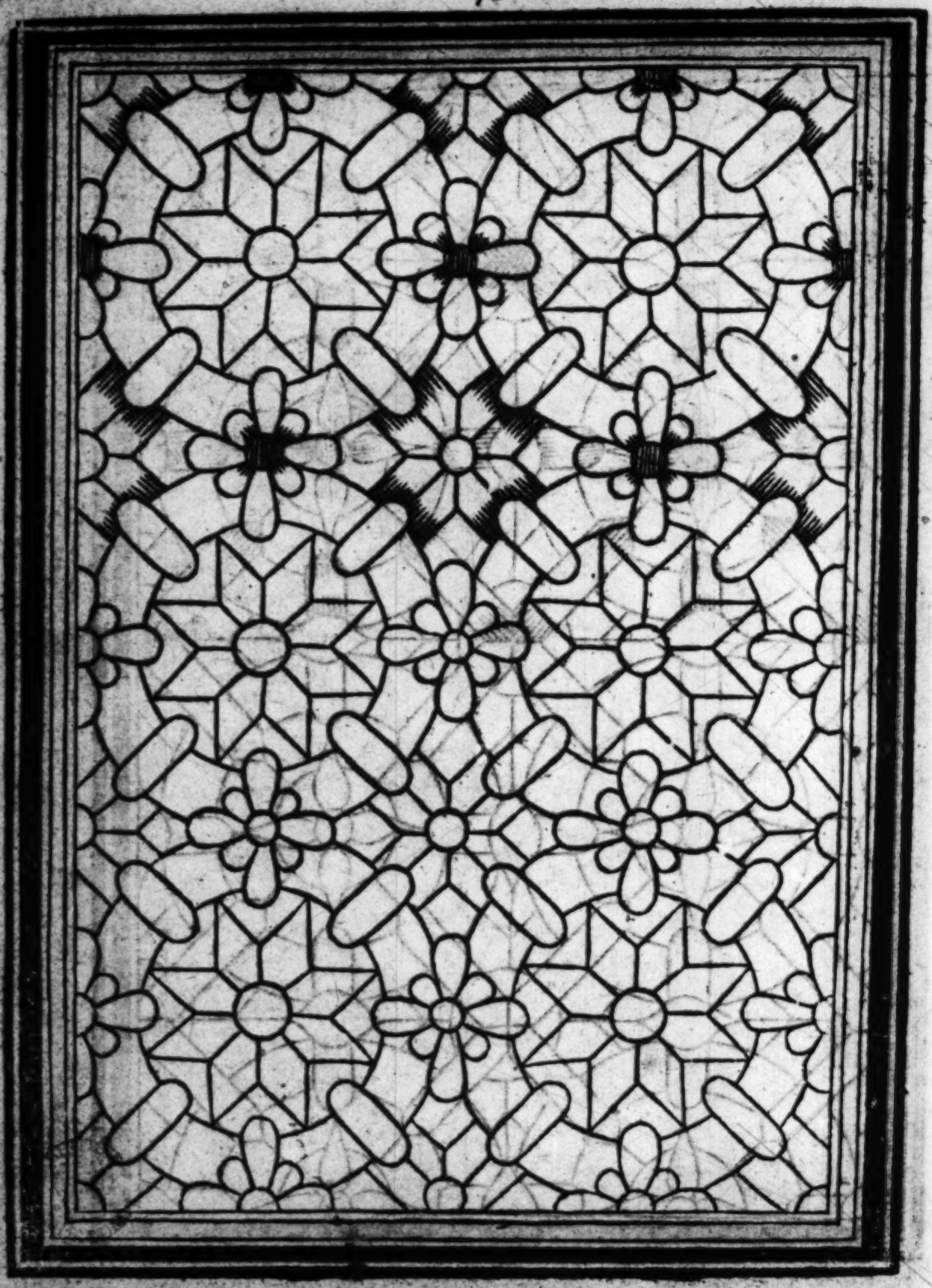

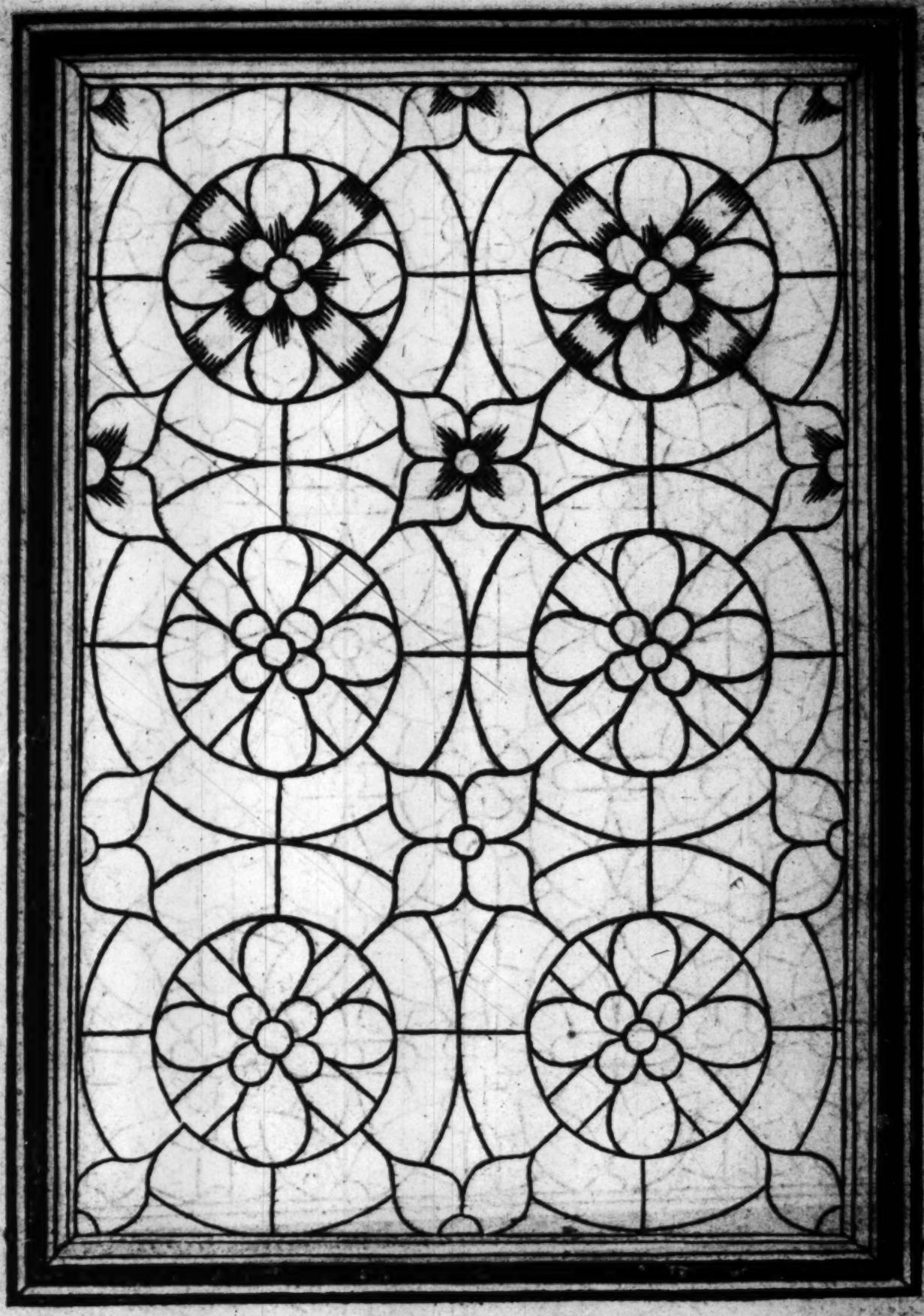

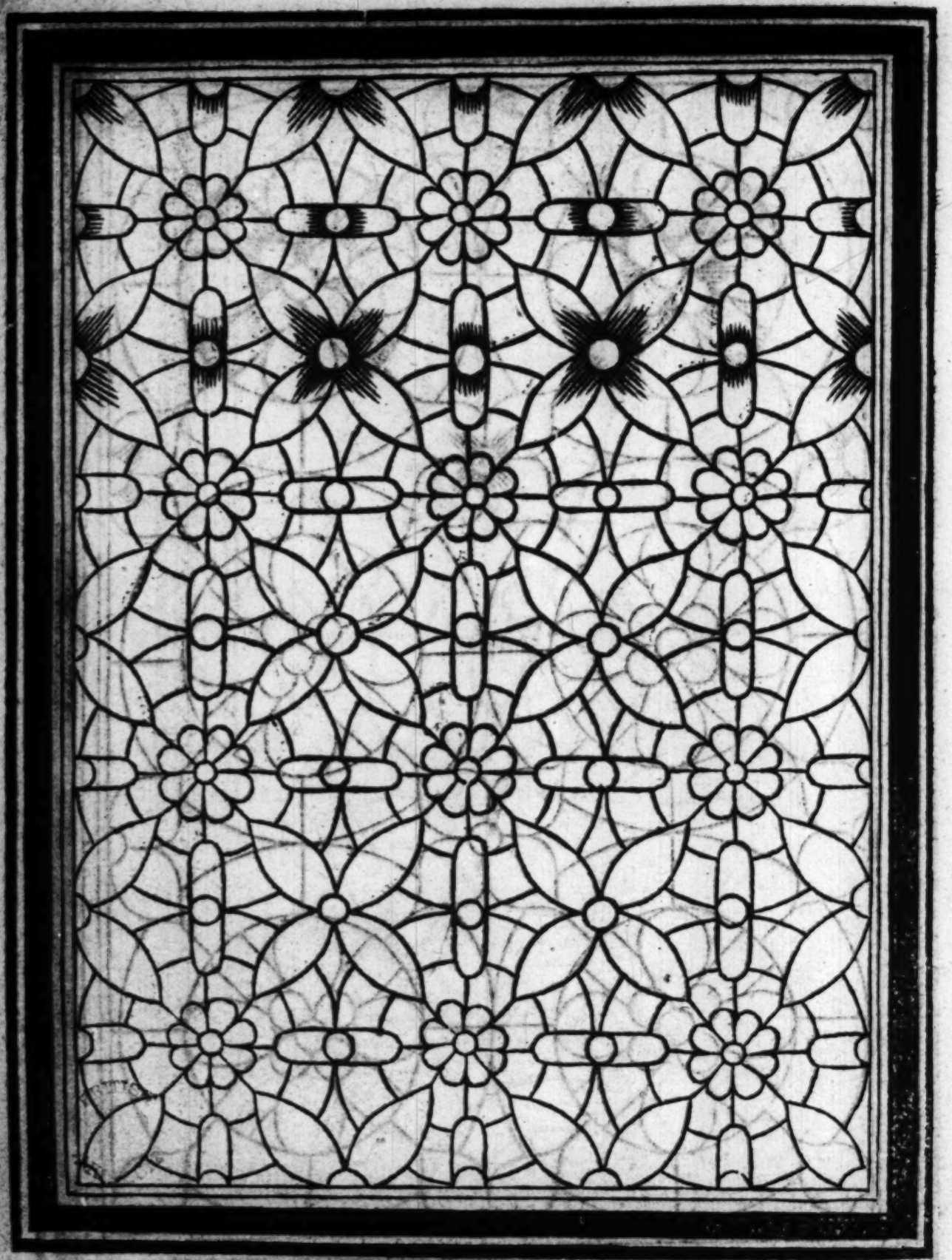

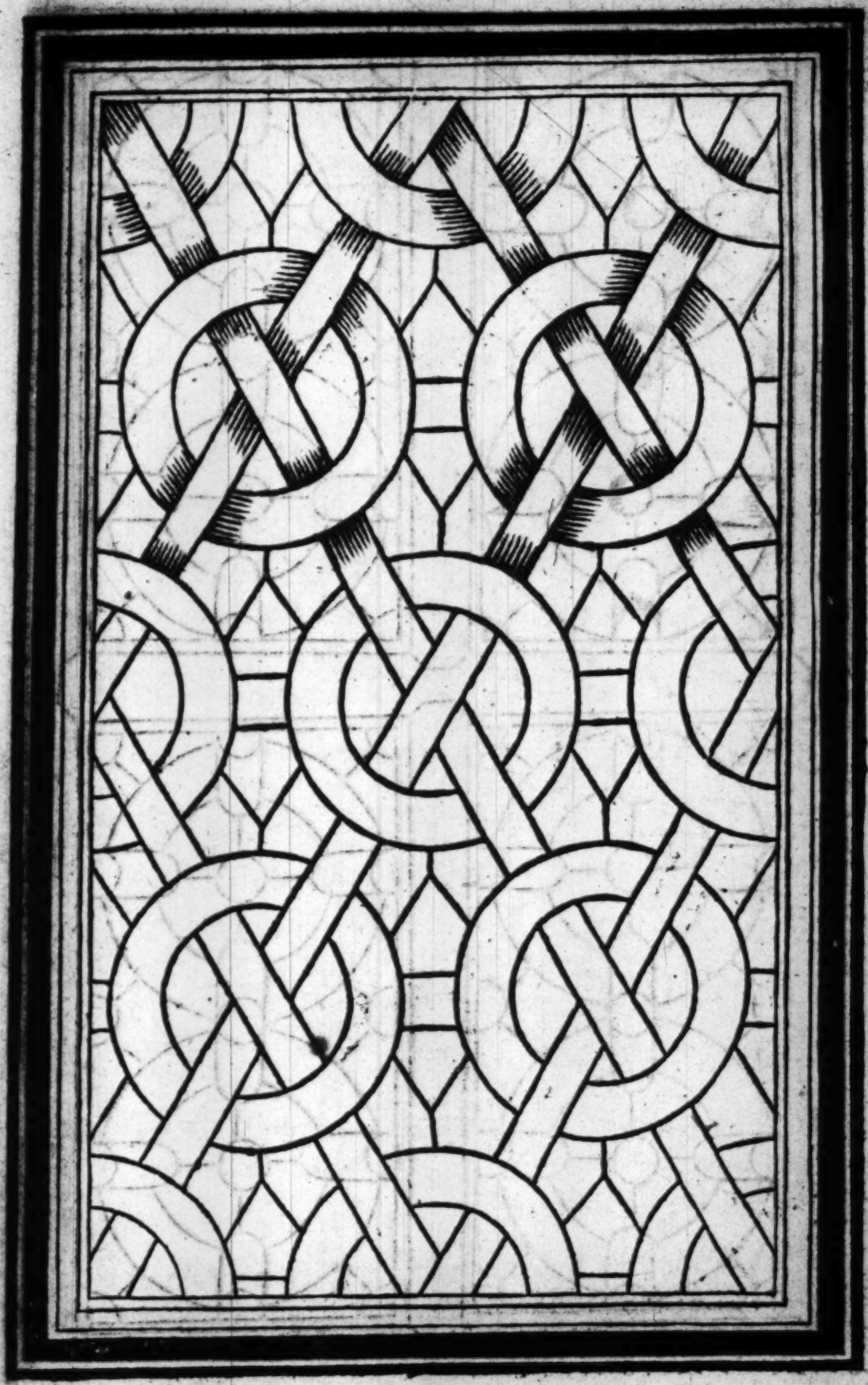

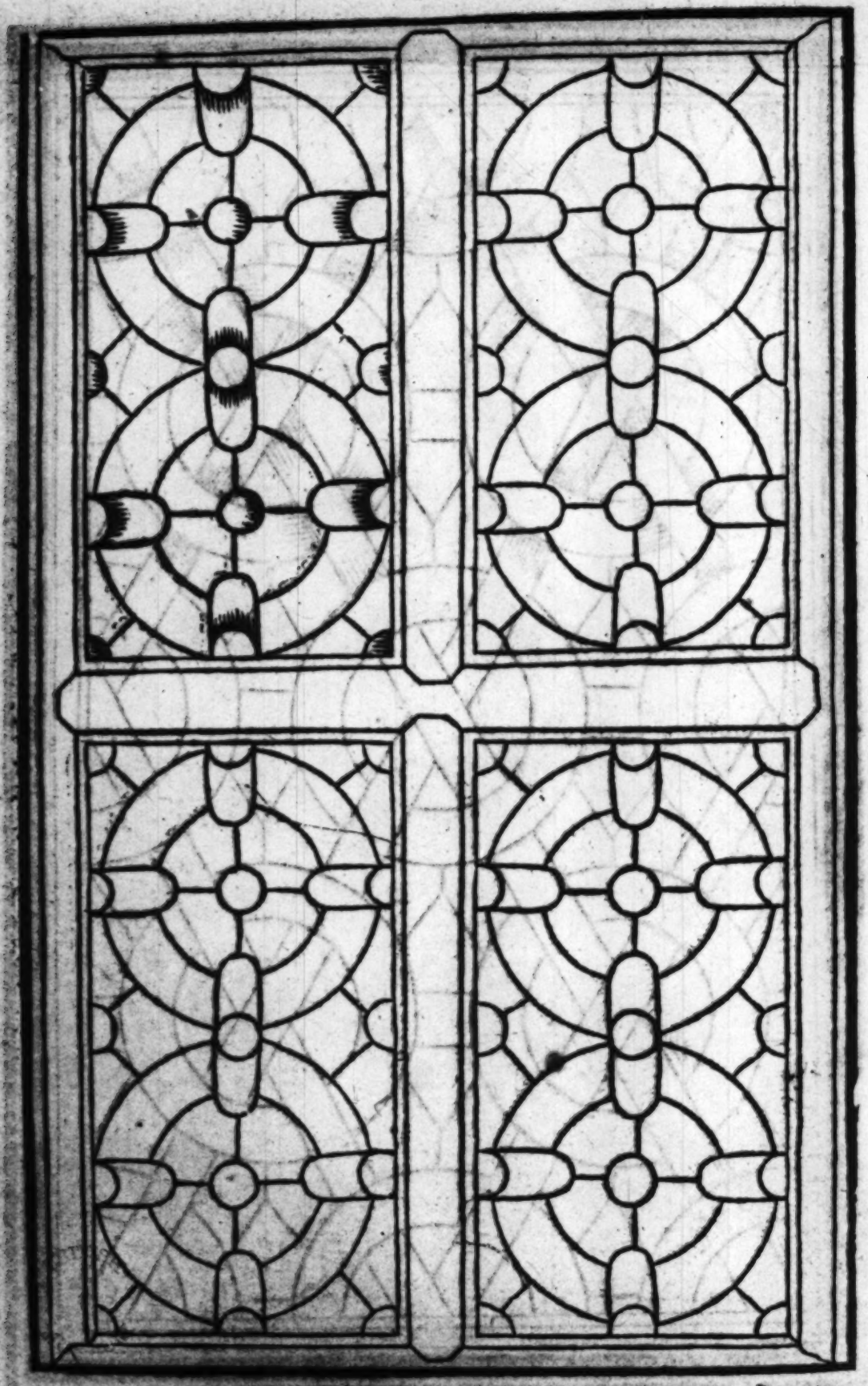

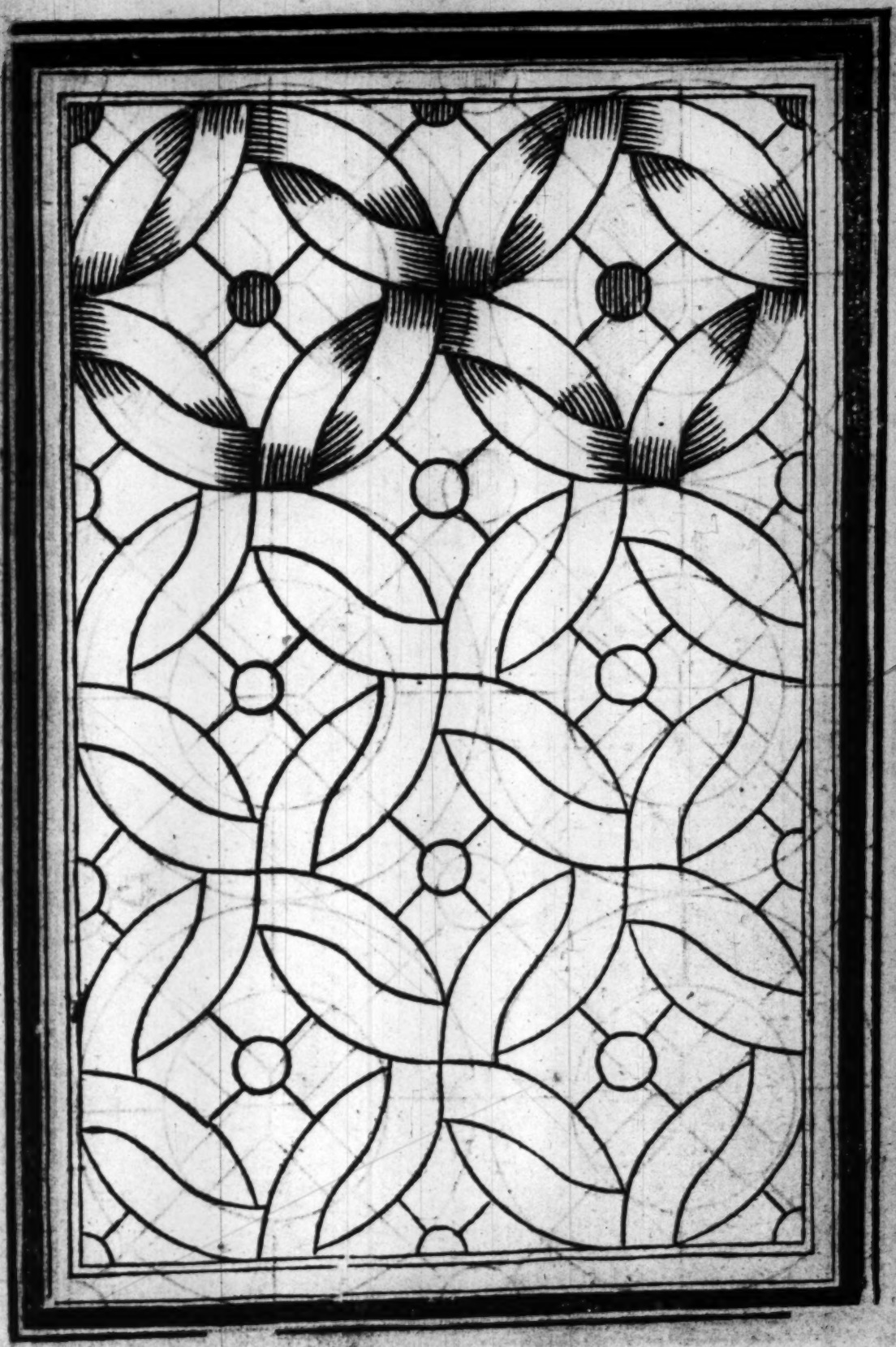

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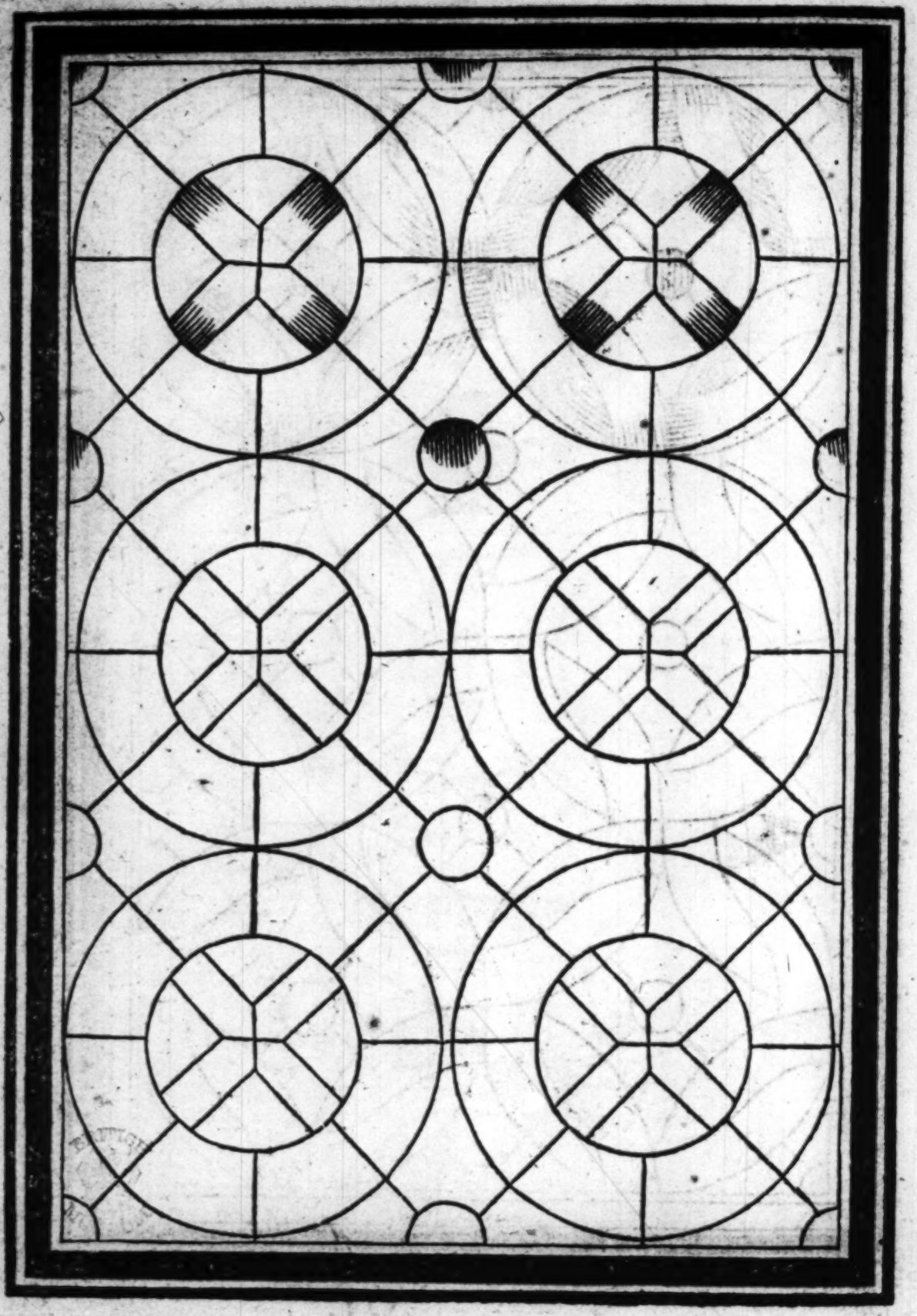

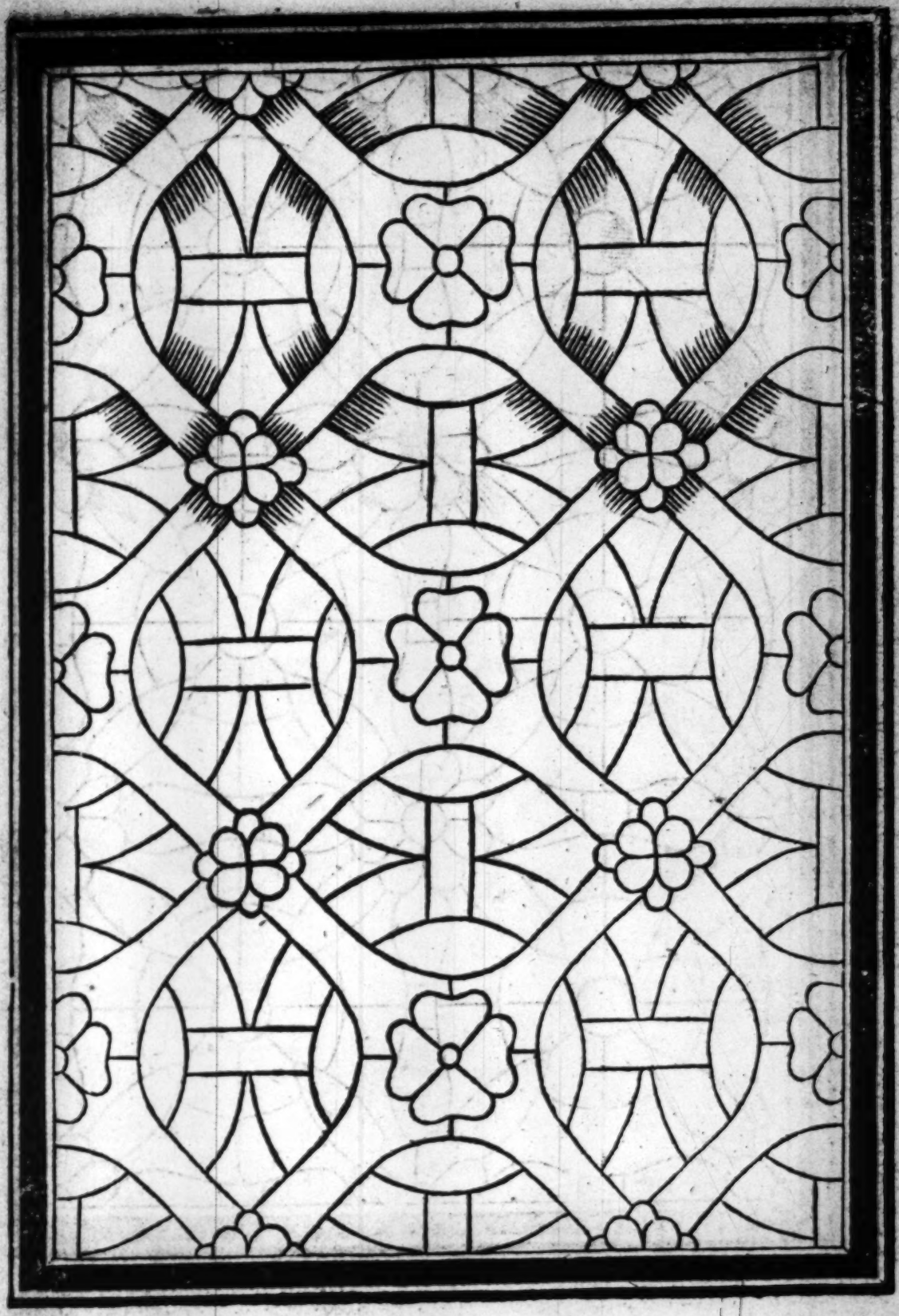

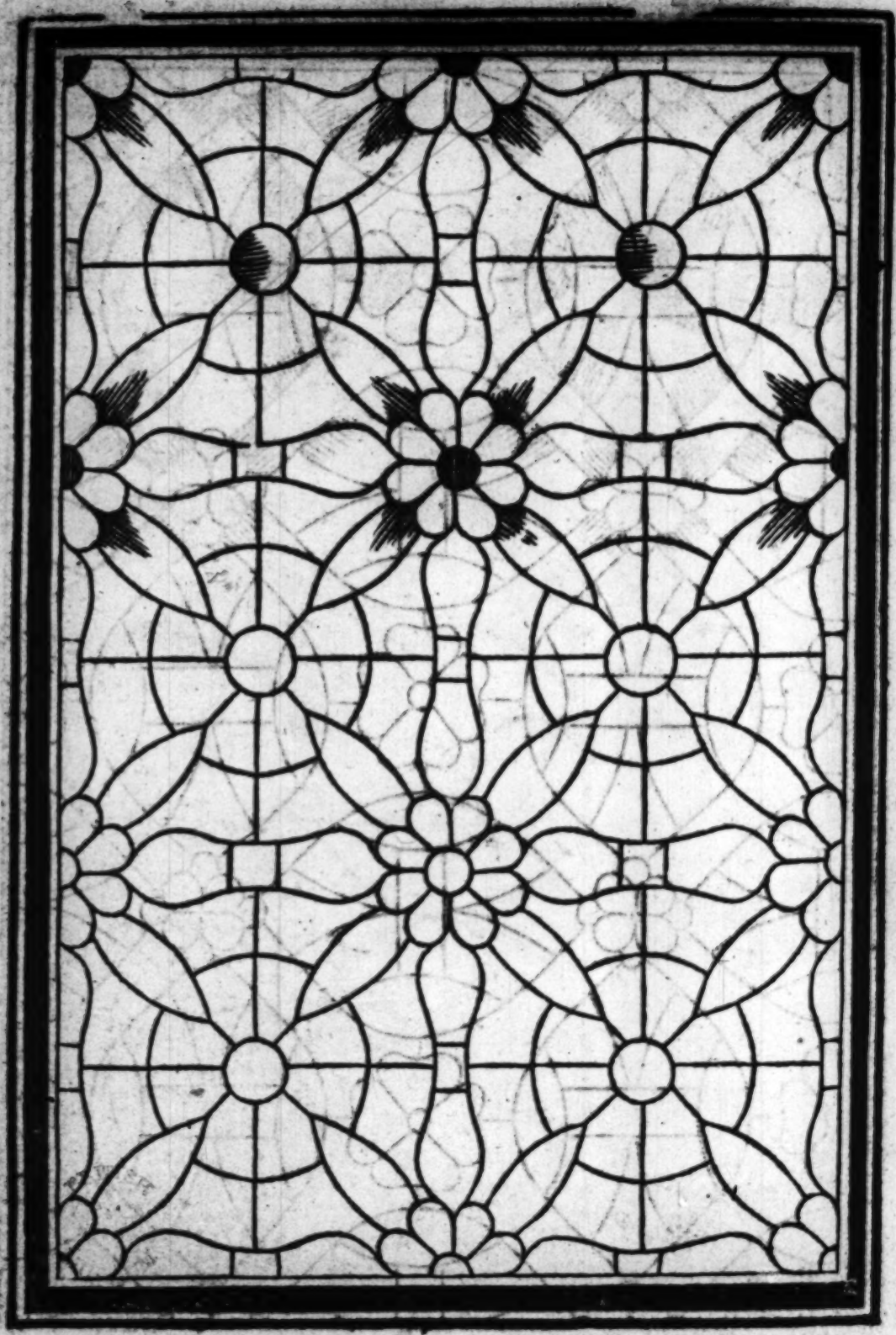

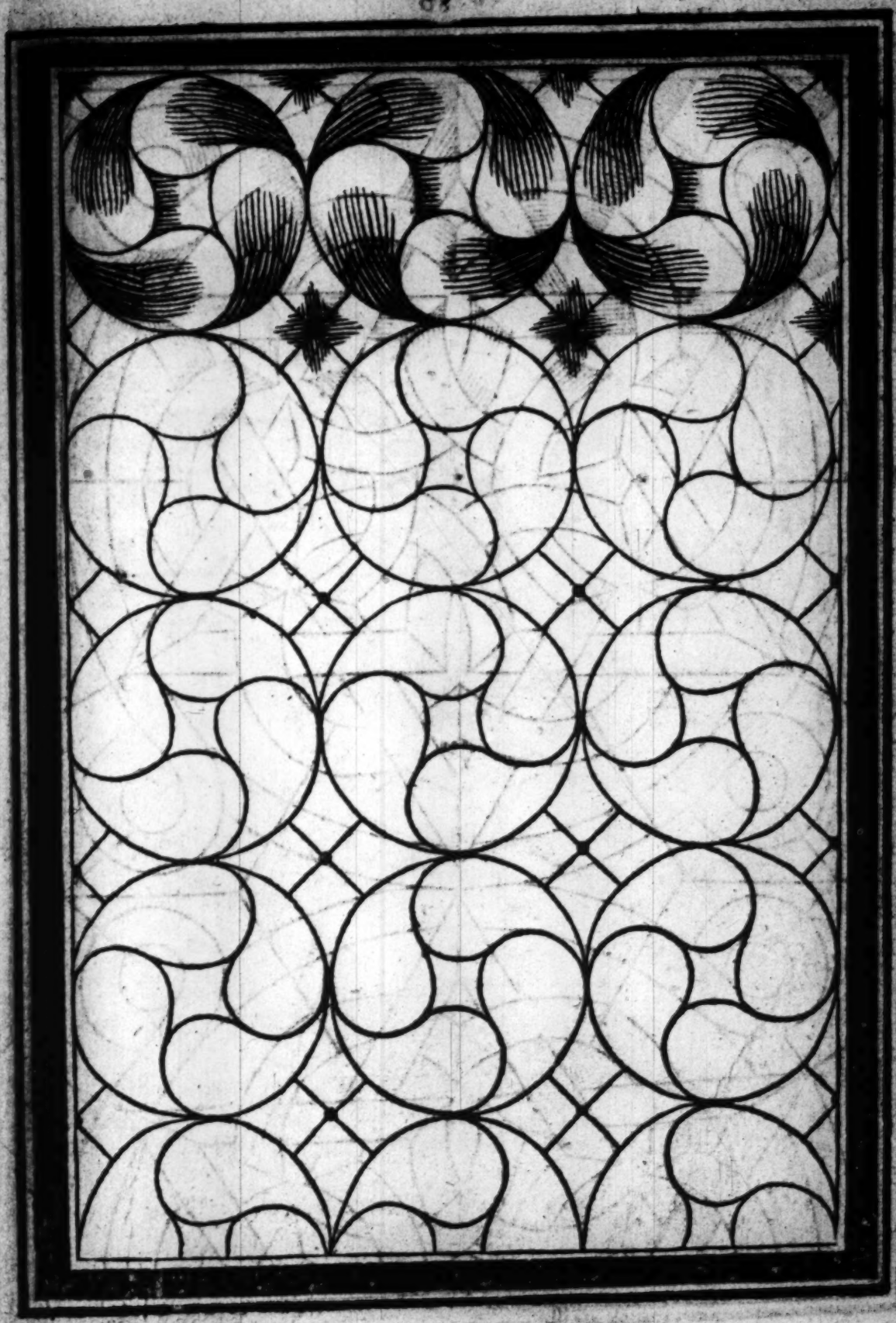

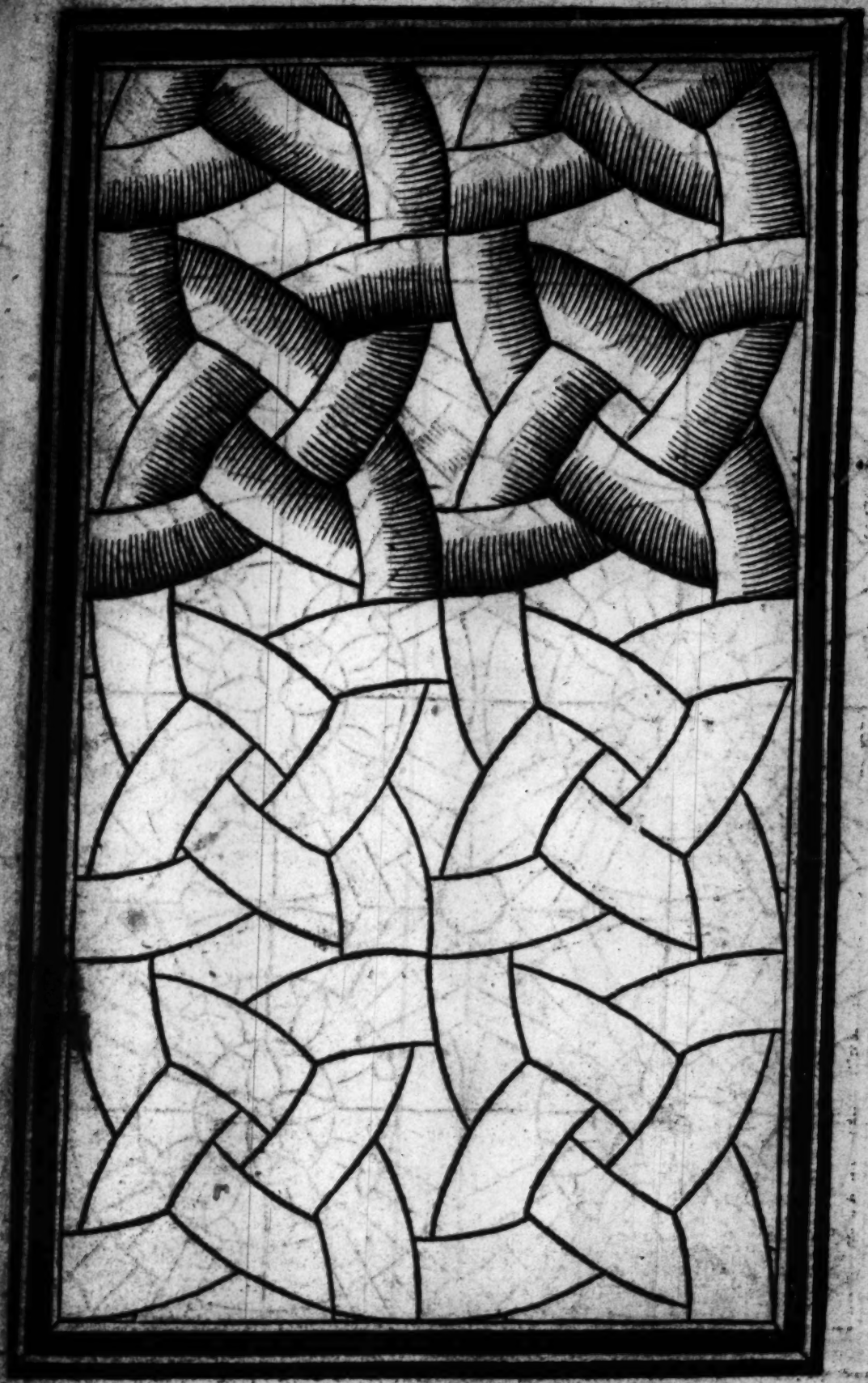

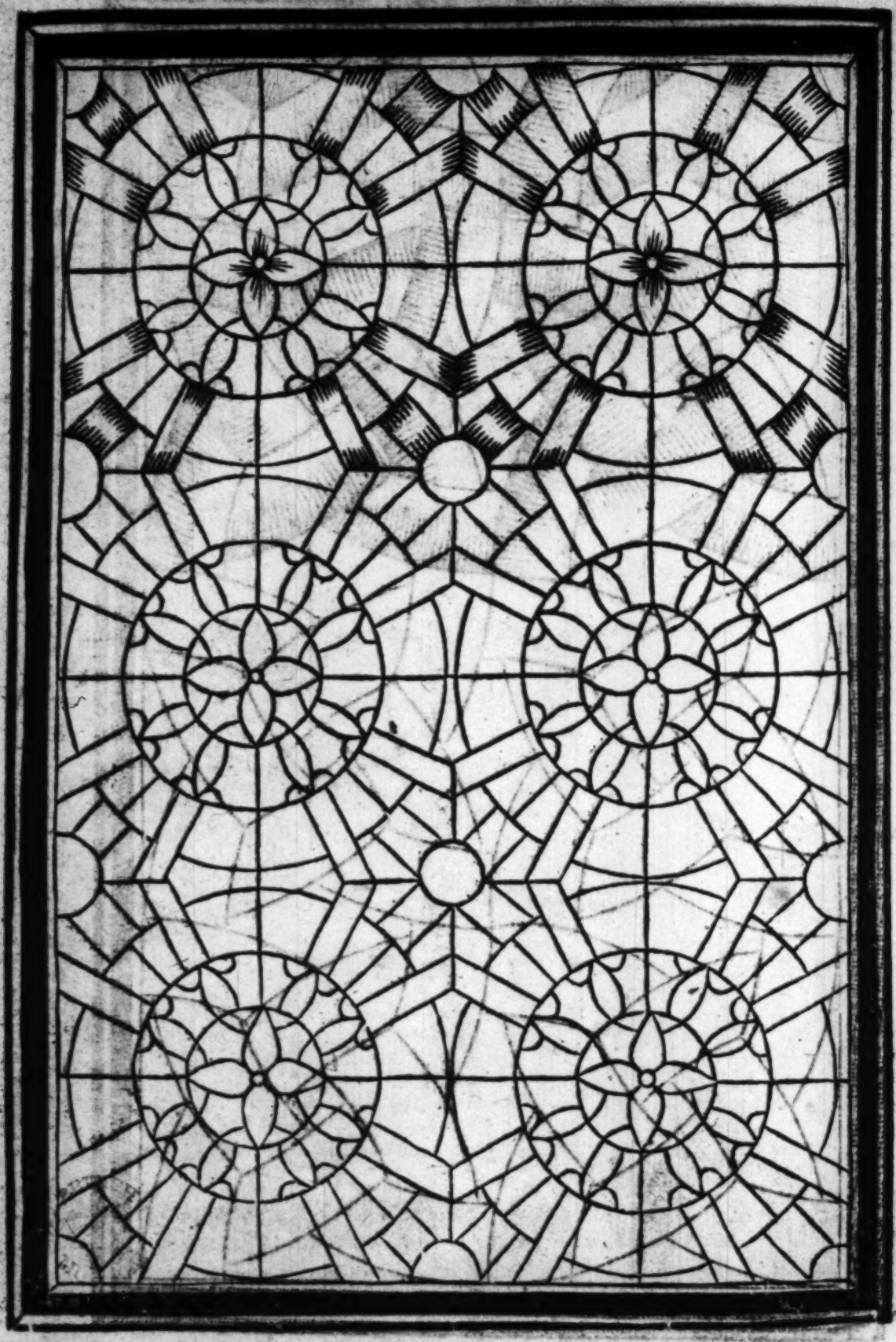

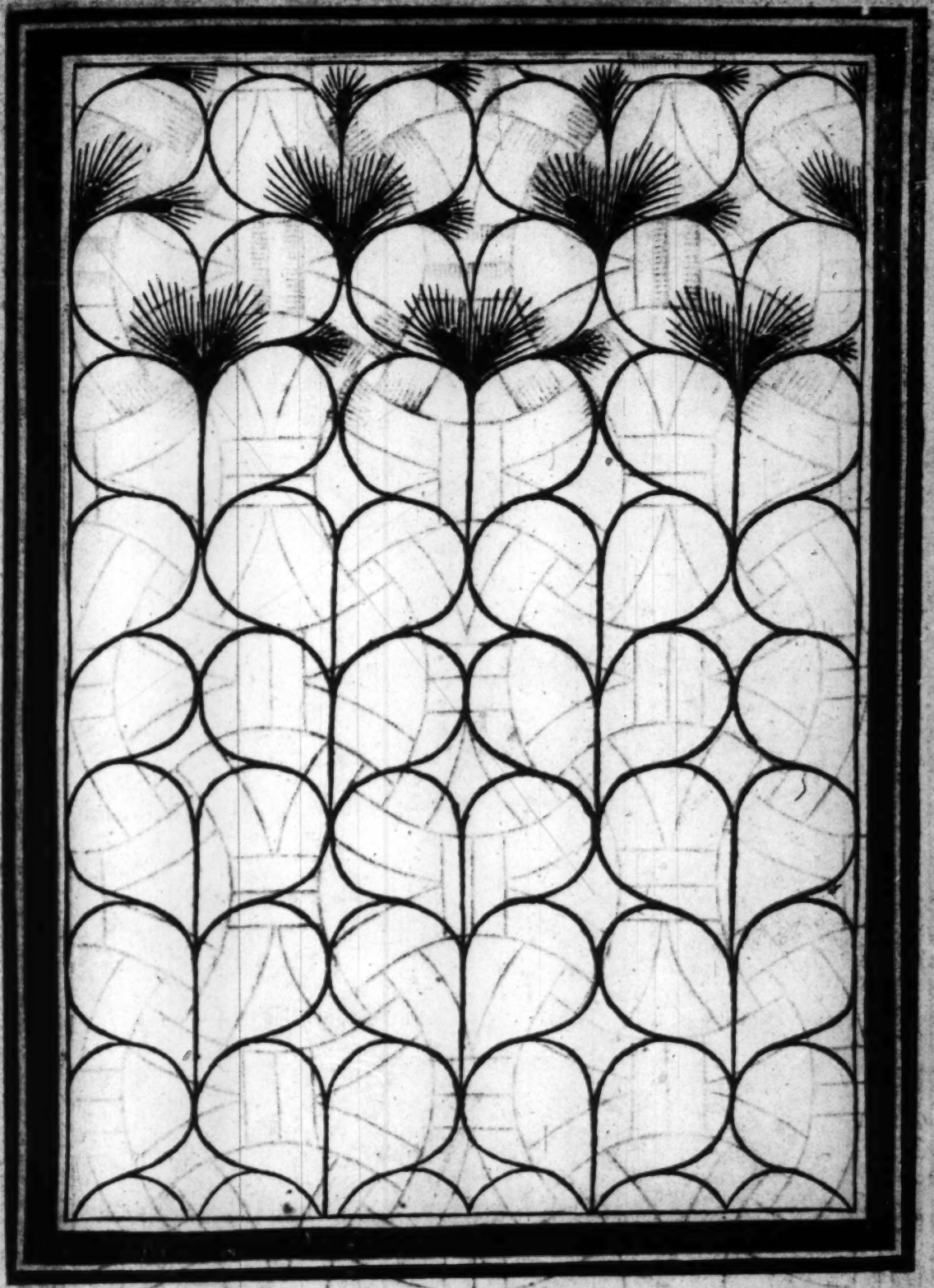

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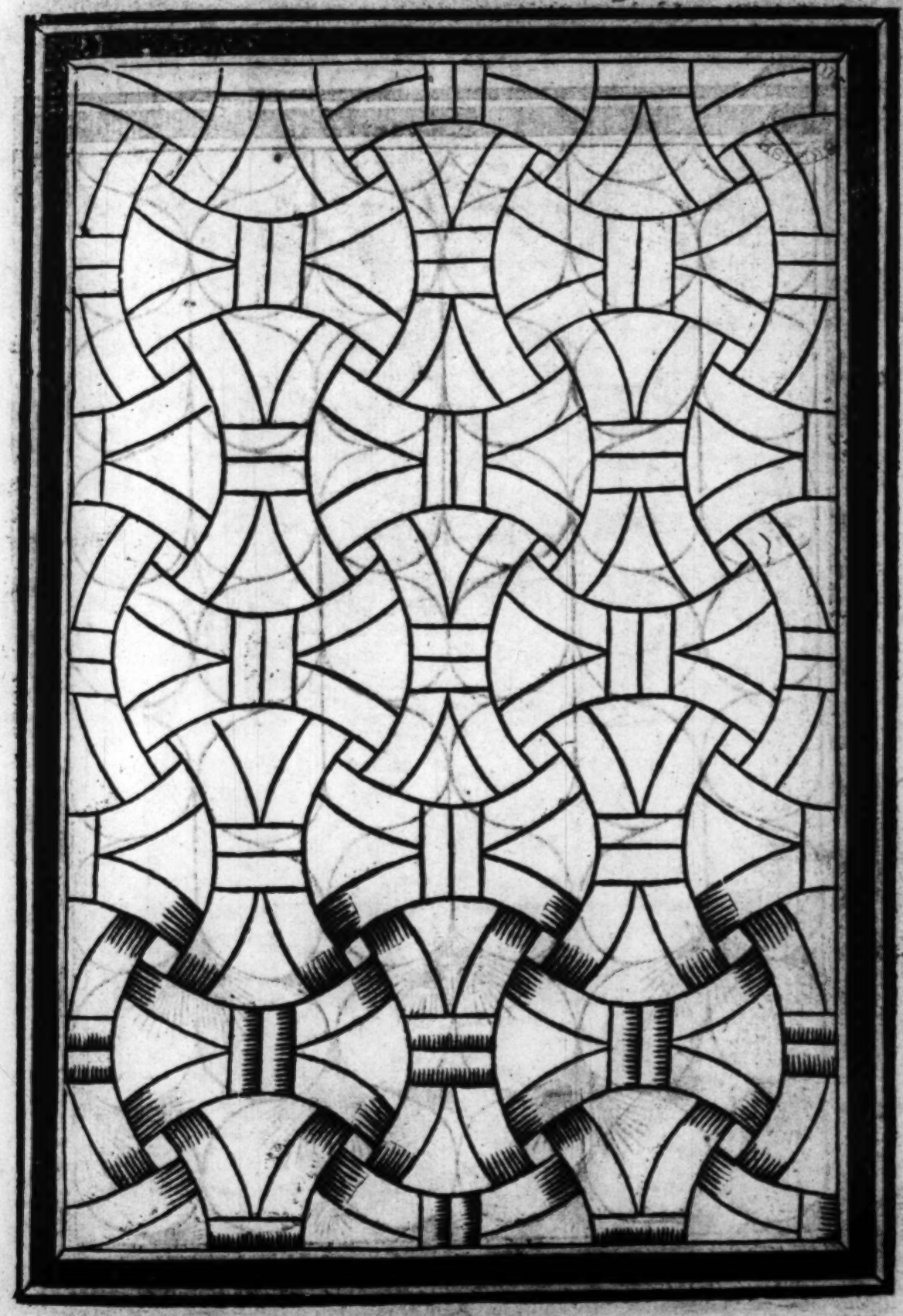

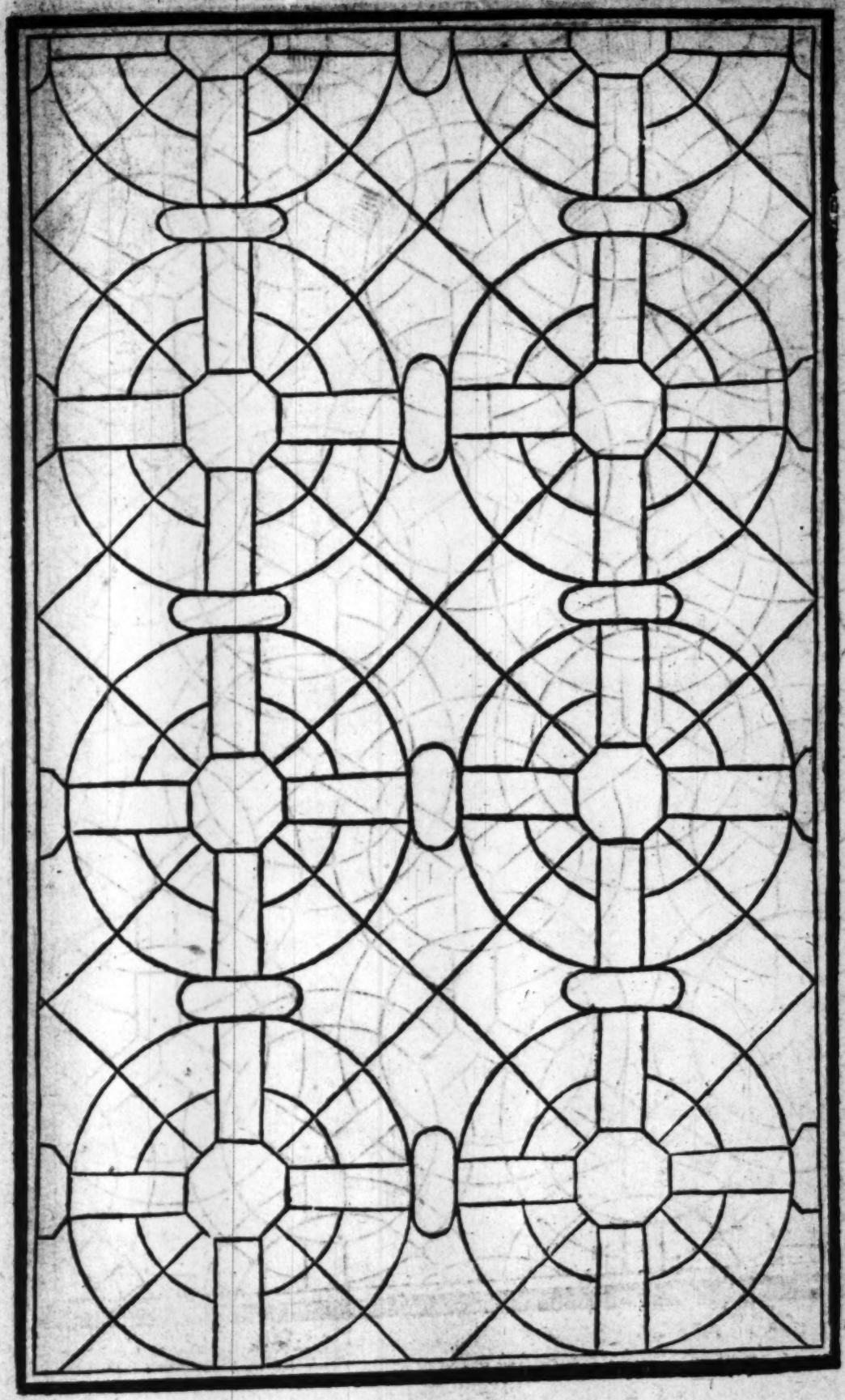

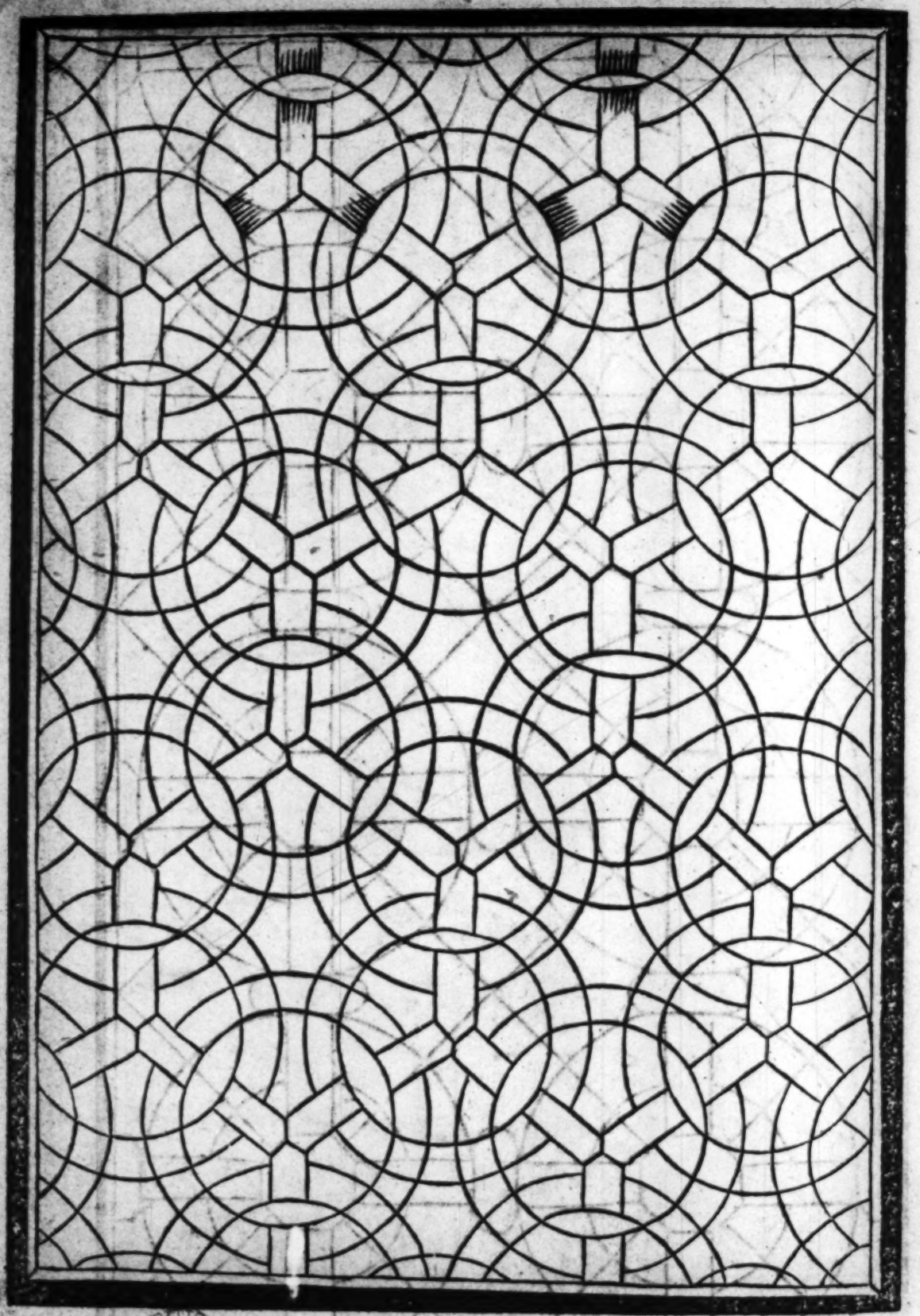

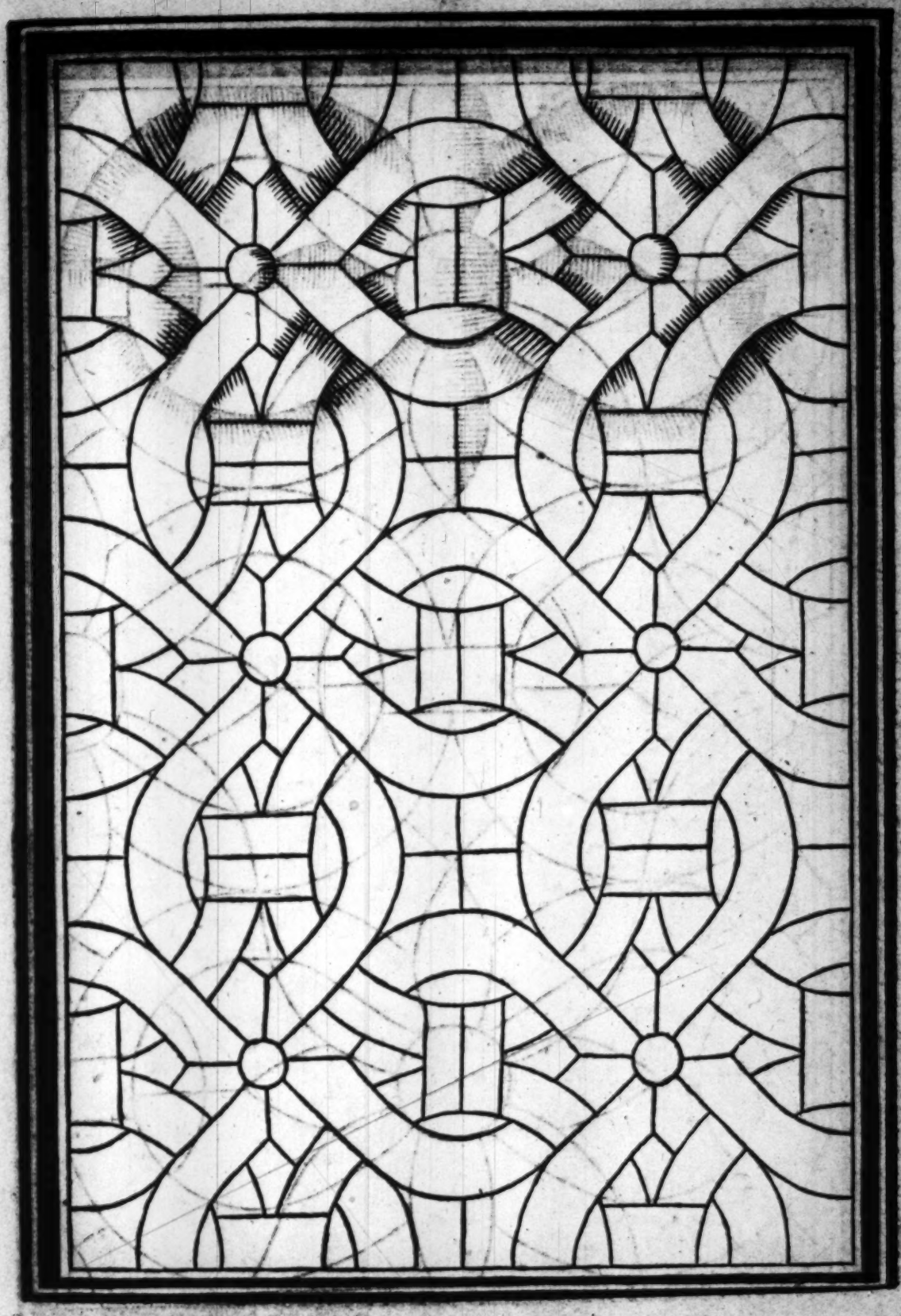

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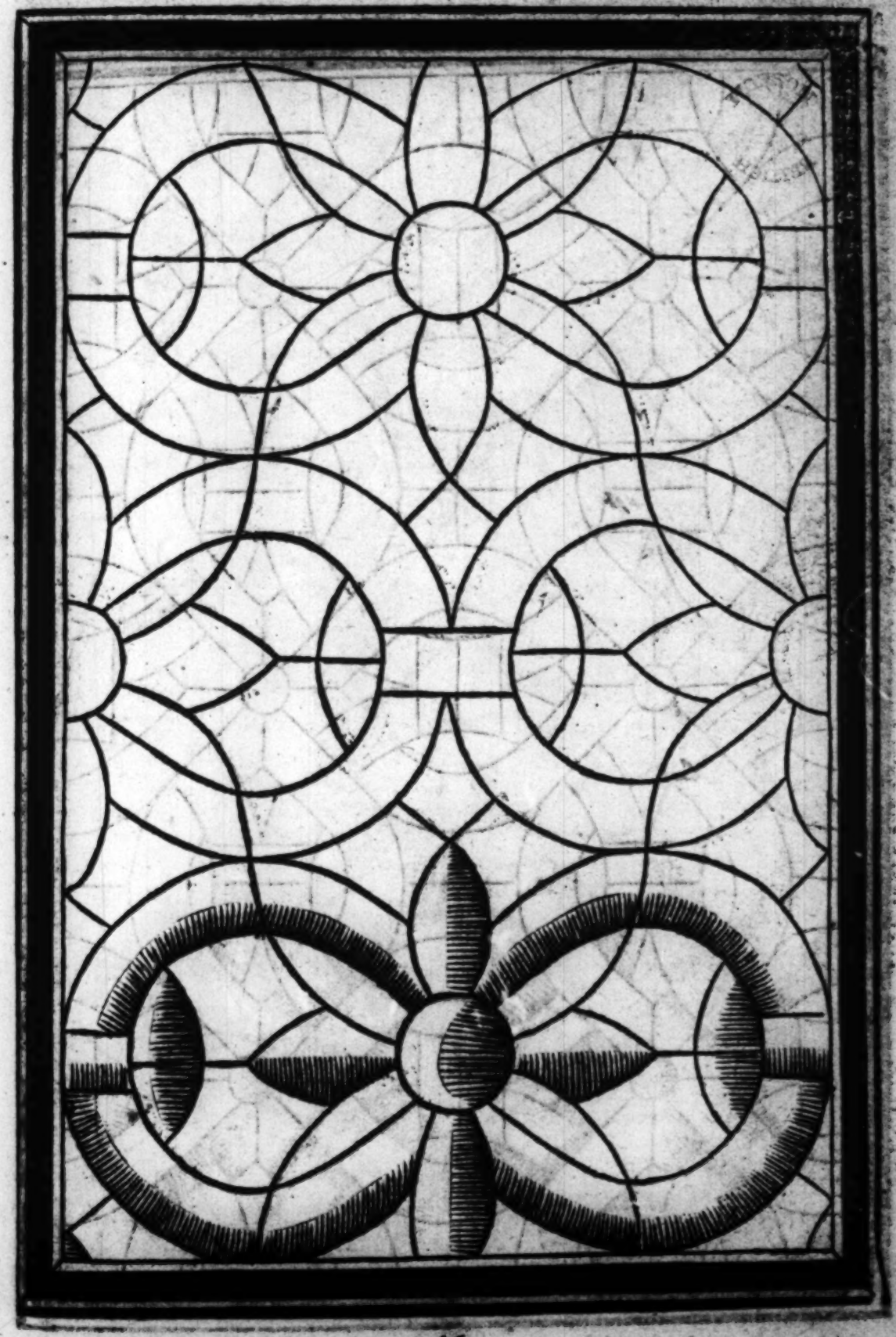

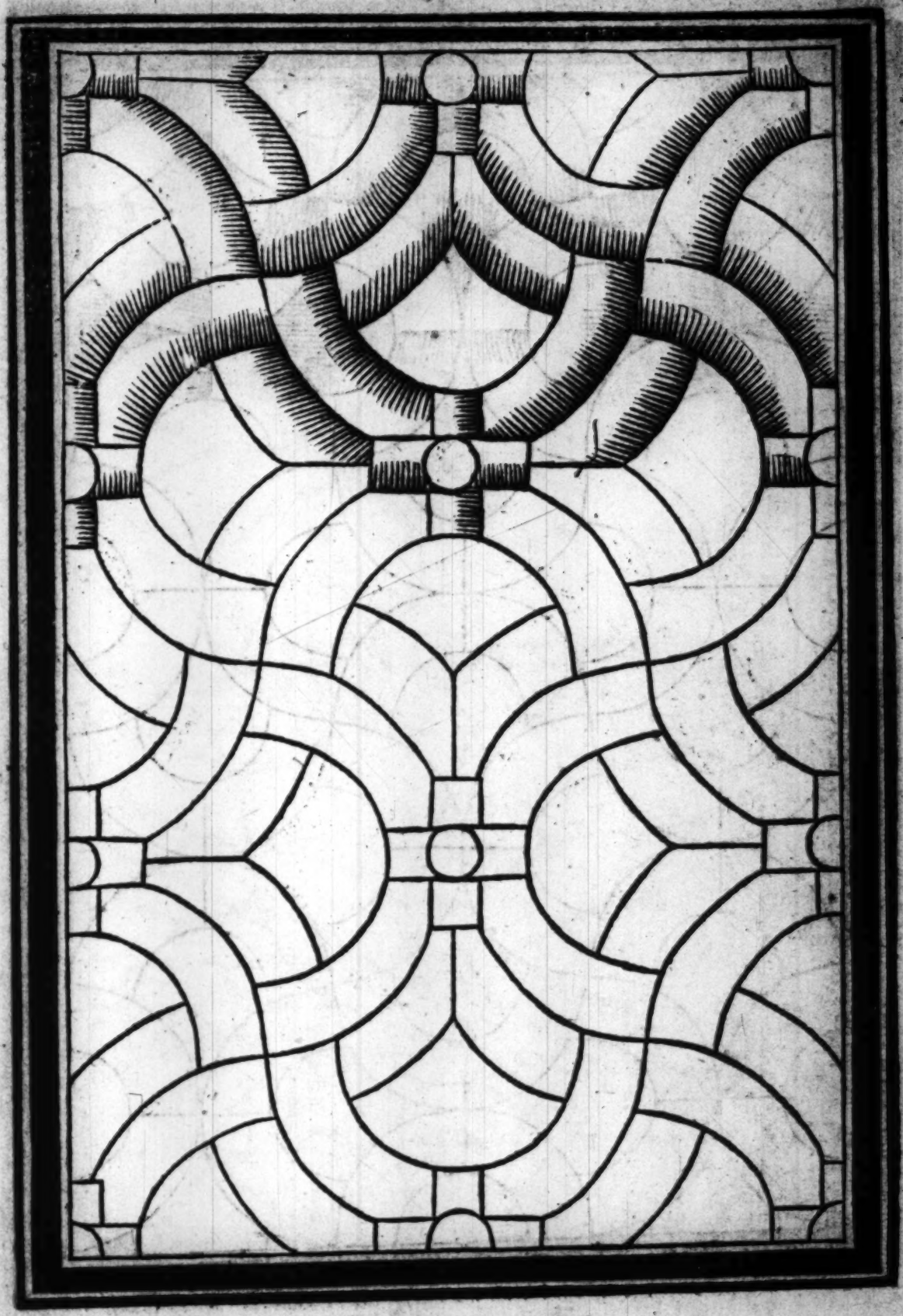

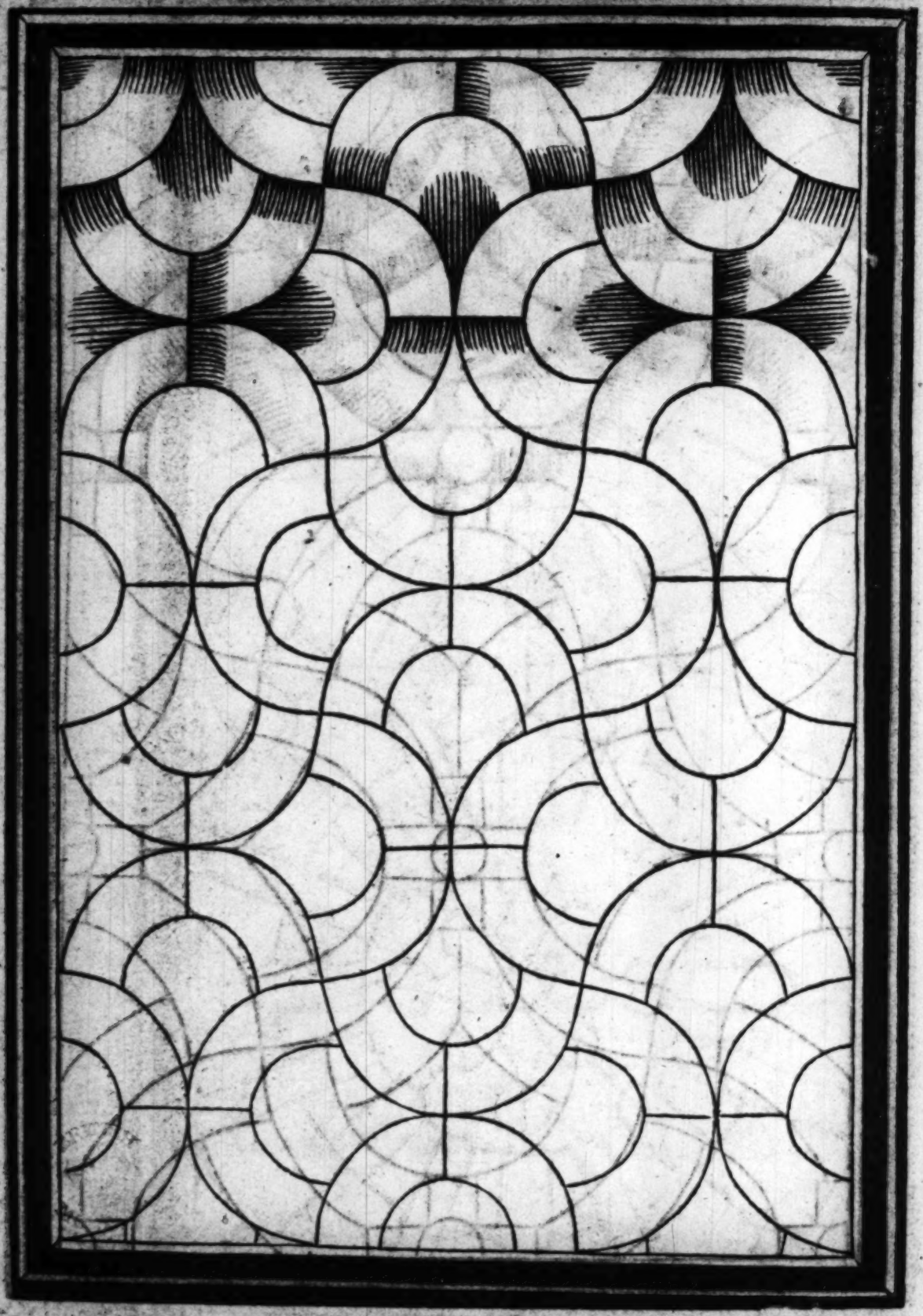

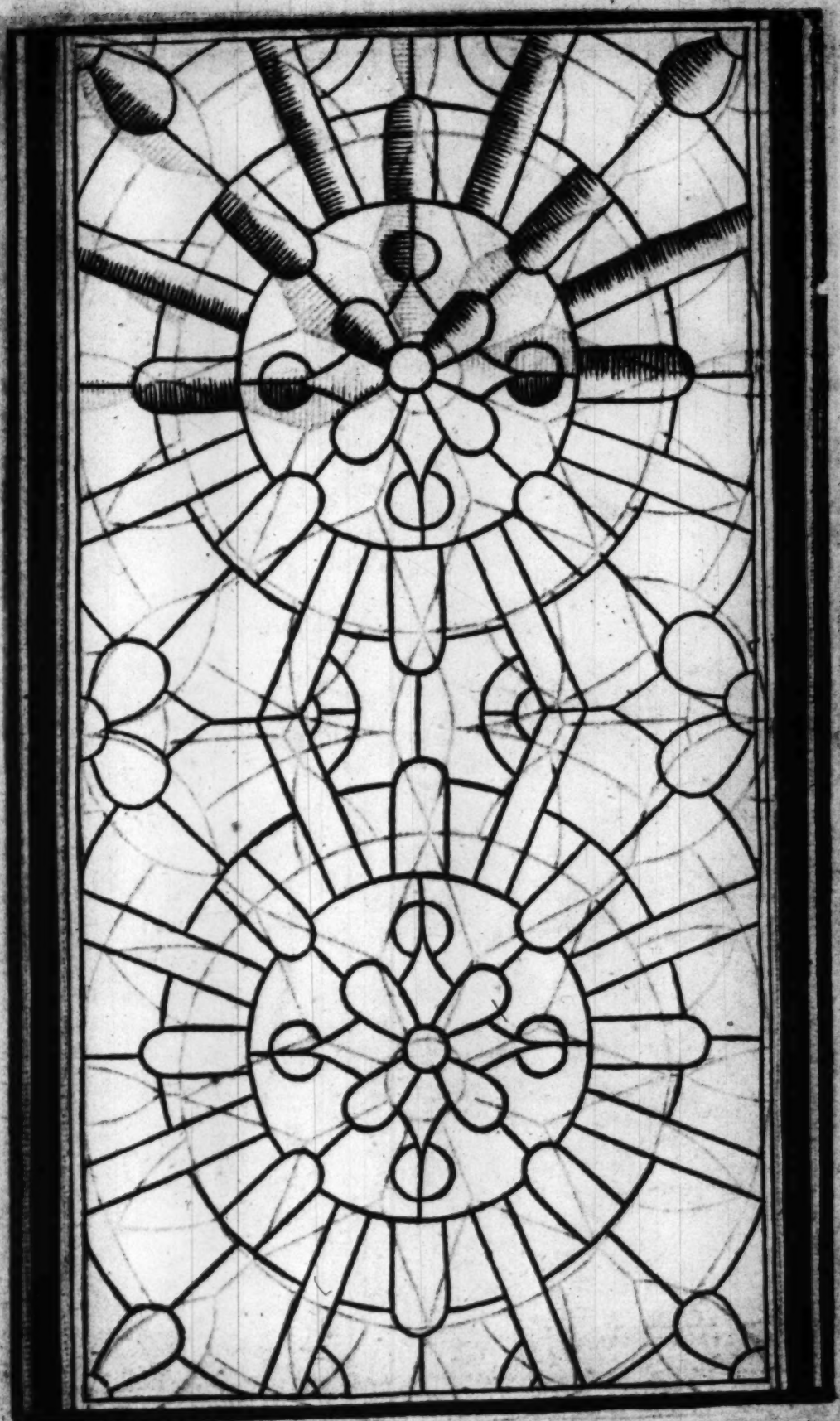

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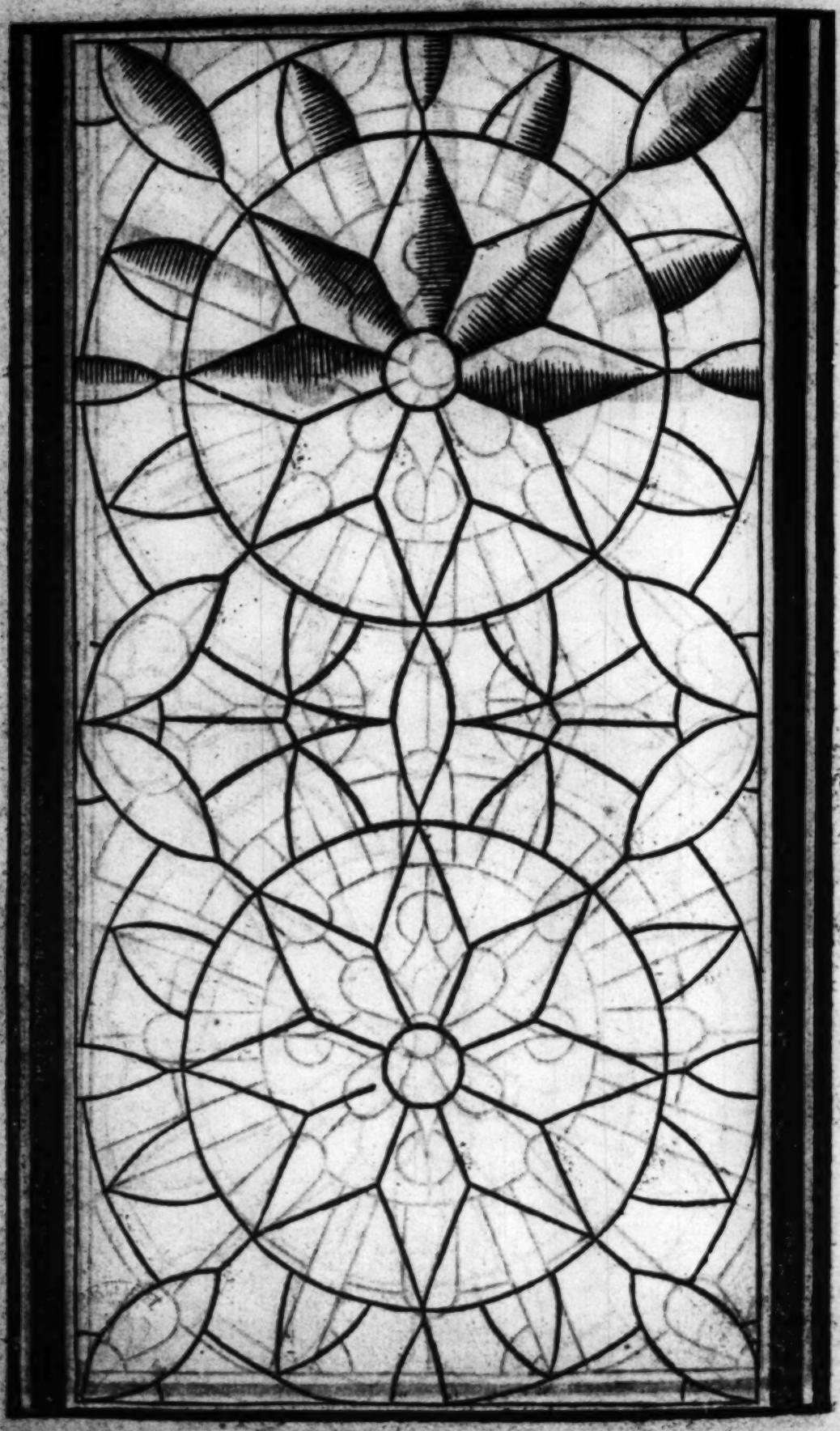
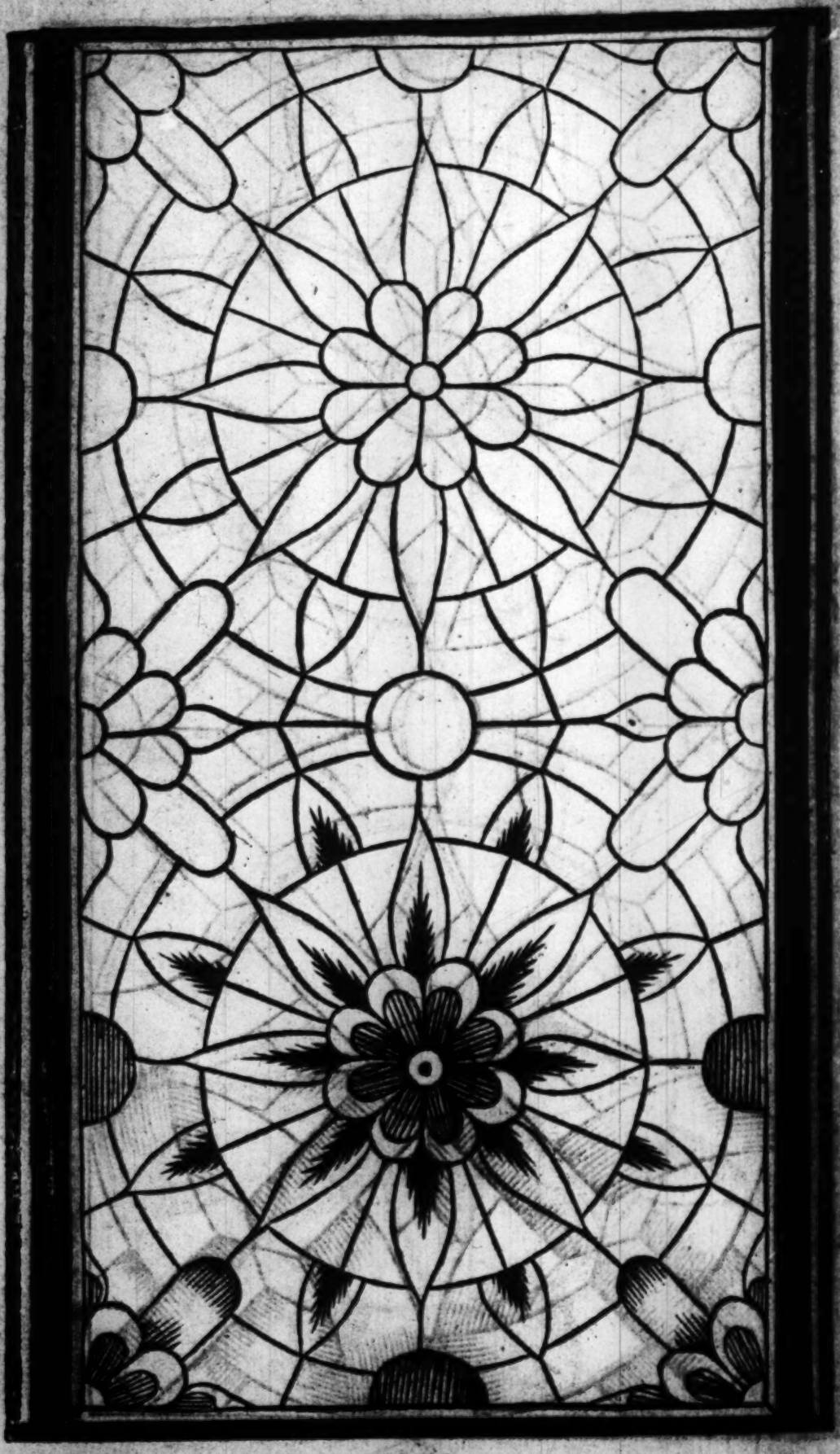
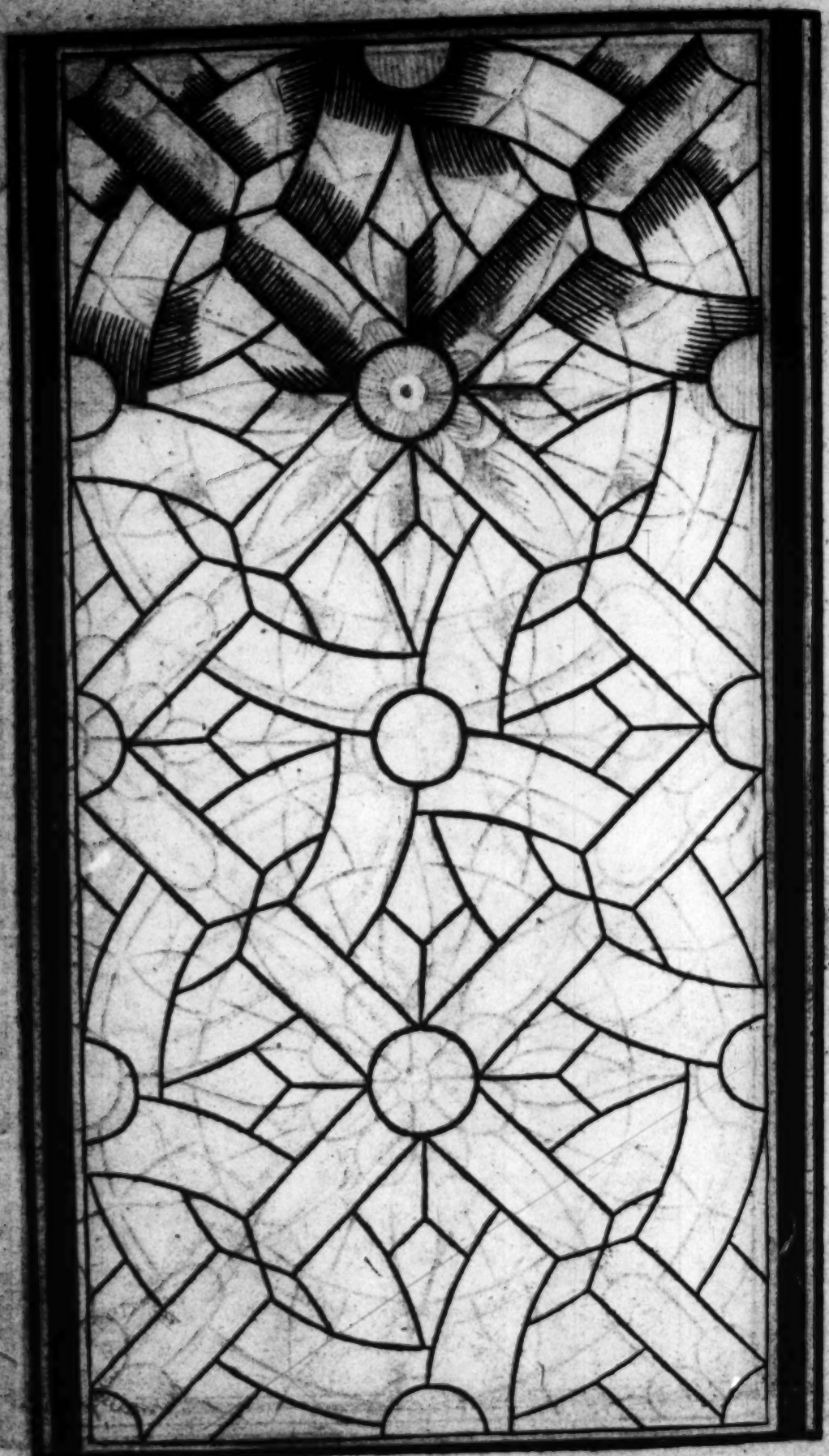






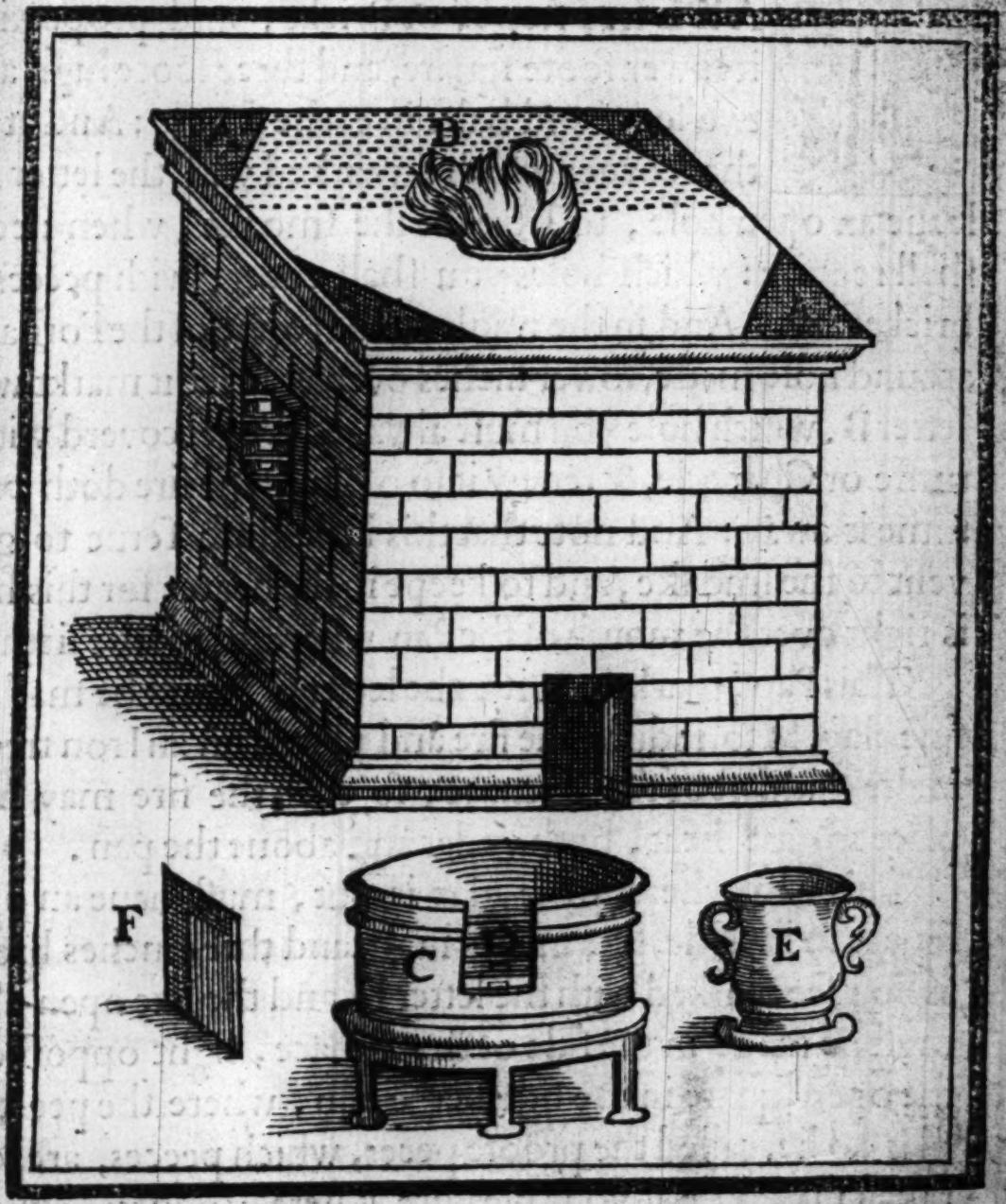
THE MANNER, Howe to Anneile, or Paint in Glas:

THE true receptes of the cullors: The ordering of the Furnace, and all the secretes there vnto belonging.

16 16

MVSEVM
BRITAN
NICVM

THE TRVE FORME, OF THE Furnace, for the Anneiling in Glaſse, withall *the Inſtruments belonging therevnto* .



THE MANNER HOWVE to erect the Fornace.

TAKE free-ſtone, or Bricke, and proportion it fower foote ſquare, and three foote high and two foote and halfe in eache ſquare: And at either corner which is marked with the letter A. leaue an open hole, to let oute the ſmoake, when neede ſhall require: which holes you ſhall cover, with peeces of bricke-bats. And in the midle of the toppe of the Fornace, around hole made, fower inches over as ye ſee it markt with letter B. which hole you muſt alwayes keepe coverd with a turffe or Charcole, & renew it ſo often as the fire doth conſume it away: And note that this hole doth ſerue to giue vent to the ſmoake, and to keepe in the heate: for this hole is right over the mouth of the Pan where the glaſſe lieth.

This Pan, marked with the letter C. muſt be made of fine clay, fit to indure the fire and placed on an Iron trevet, in the middeſt of the Fornace, ſo that the fire may haue place to giue heat, both vnder and aboue the pan.

This Pan wherein the glas is put, muſt haue an open ſquare in the ſide, fiue inches high, and three inches broad, as you ſee marked with the letter D. and the like open place muſt be made in the ſide of the fornace, right oppoſite to the open ſquare in the ſide of the pan, where the peeces of glas do lie, called the proofe peces, which peeces, are to be taken in & oute at your pleaſure, whereby you may knowe when your wrought glaſſe is thorowly enameled, and of a faire coullour.

HOW

How you ought to prepare and put your Glas into the Furnace.

TAKE Chalke that is cleane, and beate it ſmall in a Morter, or elſe grind it well on a painters ſtone: then ſprinkle ſome of it in the bottom of the Pan, before the fire be put in the Furnace: then lay a plye, or laine of glaſſe that is wrought thereō, thē ſift on more chalk and then laye another tyre, or laine of glaſſe: So by beds of chalke & glaſſe, you may lay on as much prepared glas as the Pan will hold one rewe aboue another, but remēber that betwene every rewe of glaſſe you do ſifte on chalke, that the wrought glaſs may not touch one another. Then take litle peeces of glaſſe, and touche thē with the ſame coullour that your wrought glaſſe is of, & put them in at the paſſag, at the ſide of the Furnace, betwixt the beds of wrought glaſſe, & then begin to make a reaſonable fire vnder and aboute the Pan vntill you thinke, that the glaſſe hath taken a faire coullour.

Now to knowe when your glas is perfectly ready; take a paire of tonges, and drawe oute one of thoſe little peeces of glaſſe, called the prooffe peece, and hold it betwext you and the light: if the cullor ſhowe faire, and ſtick faſt vppon the glaſſe, then you may be ſure that the worke vnder is well and perfectly anneiled, becauſe it hath had the greateſt ſtrength of the fire: But if you doubt that the cullours be not ſure, then rubbe with a rough ſtone or a knife, one of the proofe peeces, and then if the cullor come of, then you muſt let it continew longer in the fire, while you put the next peece to the proofe. Note further that the proofe hole in the ſide of the Furnace, marked with the letter *D*. muſt haue a ſtone that will abide the fire fitted to it, ſuch a one as you ſee marked with the letter *F*. which ſtone ſerveth to take of, and put on ſo often as you make triall of the proofe peeces.

Alſo yov muſt haue an earthen pot, ſuch as ye ſee marked with the letter *E*. wherein you muſt haue a readines ſome ſoft clay to faſten the ſtone againe, ſo often as you ſhall haue occaſion to remoue it: But the holes in the toppe of the furnace you muſt not ſtoppe with clay, but only with peeces of brick bats ſo that the ſmoake may haue vent oute.

THE RECEIPETS, FOR THE true making of Collours for Glaſse.

To make a faire Blacke.

TAKE the Scales of Iron & Copper, of each a like waight, & put it in acleane veſſell that will indure the fire, till they be red hotte, then take halfe as much leate, and ſtamp them into ſmal pouder, then mix them with Gumwater, & grind them fine vpon a painters ſtone and ſo drawe with it vpon your glaſſe.

To make a Greene coullour.

TAKE Vertegreaſe, and grind it very well with Turpentine then put it in a cleane pot, and when you would vſe it warme it at the fire.

To make a faire red.

TAKE Sanguis draconis and beate it well in a Morter, & after ſtraine it thorough a linning cloth, with a little Aquavitie, and ſo vſe it.

Carnation.

TAKE two ounces of Tyn-glas, and ſix ounces of leat, half an ounce of gum, ten ounces of red Ocker, and grind them very well togeather, and ſo vſe it.

Blew.

TAKE beades of blew glas, and beat them into poulder, in a braſen morter, and halfe as much of goldſmithes blew amaling that ſhines through, & grind them together with gum-water, and ſo vſe it.

Yellow.

TAKE a quantitie of fine ſilver, and cut it in ſmale peeces, and put therto a little Antimonium beaten to poulder, and put them to-geather in a melting-pot, and ſet them on the fire well covered round about with hotte embers the ſpace of an hower, then take it from the fire, and poure it into the bottom of a cleane earthen veſſell that will abide the heate thereof: after it is cold beat it into fine poulder, and grind it on a Painters ſtone, and when it is well ground, take ſixe times as much Ocker as the Silver weighes, and ſeven times as much old earth that hath bin ſcraped off from enamaled worke: after that, let it be well ground, then put all this together in a pot with gume-water, and ſtirre it well aboute and ſo vſe it.

To make a Grey couller.

TAKE Iron ſcales, a little Criſtall, and ſum ſmale quantitie of Ieate, grind theſe well together vpon a painters ſtone, the more Ieate ye take, the ſadder the coullour will be, & likewiſe the more chriſtall you put to it the lighter.

To

To Diaper vppon glas.

TAKE Criſtall, beaten to poulder, and grind it well vppon a painters ſtone with Gumwater, and ſo vſe it: It will apeare a prettie light coullour, different from the glas: Keepe this coullour in a little Potte, and when you will vſe it, ſtirre it well aboute.

Another faire red Cullour.

TAKE a quãtitie of red glaſſe beades, and halfe as much of Goldſmithes red Enamaling, and prepare it as you did the blew coullour before.

FINIS

MVSEVM BRITANNICVM